

## Volume 4

# Unlock the potential of your Samsung Galaxy device





# Welcome to Samsung Galaxy

## Tips, Tricks, Apps & Hacks

The Samsung Galaxy range of phones and tablets is the pinnacle of mobile computing and hardware, and continues to be the most popular and lucrative option in the Android market. With each new model the company takes a bold and ingenious step in the right direction, whether it's the stunning and quirky design for the Galaxy S6 Edge or the sheer power of the compact Galaxy Tab, it's clear why the Galaxy continues to leave the competition in the dust. With this guide, we give Galaxy lovers exactly what you need to uncover your phone or tablet's secrets and unlock its true potential. In our Tips section, we cover how to make use of the native functions that come with your device, making sure you know your phone through and through. Then in Tricks we'll take a look at how you can use additional apps to enhance the functionality of your Galaxy, such as doubling your battery power, saving YouTube videos offline or creating a secure photo vault. The Hacks section will take you even further, teaching you how a rooted Galaxy device can be manipulated, so you can, for instance, manage which apps run when you start up your device, freeze bloatware, and root Lollipop. Finally, we cover the best apps available for your Galaxy right now. Have fun!





# Samsung Galaxy

## Tips, Tricks, Apps & Hacks

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**Printed by**

William Gibbons, 26 Planetary Road, Willenhall, West Midlands, WV13 3XT

**Distributed in the UK, Eire & the Rest of the World by**

Marketforce, Blue Fin Building, 110 Southwark Street, London, SE1 0SU

Tel 0203 148 3300 [www.marketforce.co.uk](http://www.marketforce.co.uk)

**Distributed in Australia by**

Network Services (a division of Bauer Media Group), Level 21 Civic Tower, 66-68 Goulburn Street,  
Sydney, New South Wales 2000, Australia Tel +61 2 8667 5288

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Part of the

**Android**  
magazine  
bookazine series



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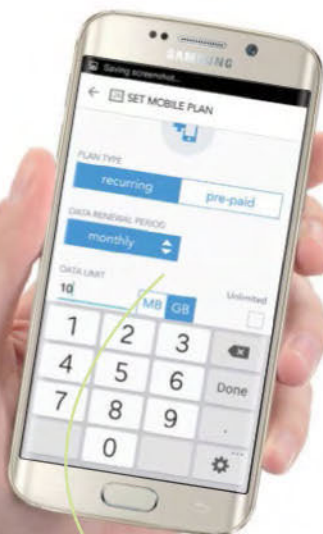
**"Mobile browsers are capable of so much more than going from webpage to webpage"**

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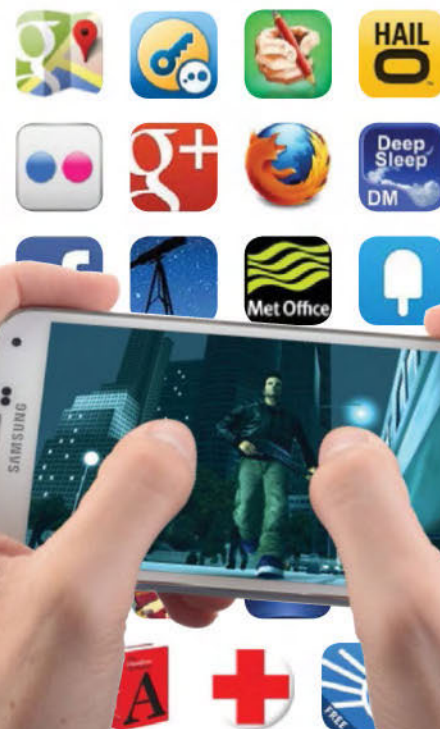
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# GALAXY S6 SECRETS

Discover 20 hidden features that will change your Galaxy!

With the release of the Galaxy S6 and S6 Edge, Samsung took the unprecedented approach of trimming down the sheer number of features in their TouchWiz Android skin. That's not to say that the device isn't fully featured, however – there is still a lot to discover and a lot of different ways that you can tweak your device to get the most out of the experience. This includes installing and configuring third-party software as well

as making a few simple changes to the stock settings, so that they suit you more efficiently. The S6 devices come preloaded with Samsung versions of many stock Android experiences such as the launcher, camera, calendar (S Planner), and if the standard versions are more to your preference, one of the great advantages of Android is that the Google equivalents can be easily installed from the Play store. Customisation really is the

essence of Android – enjoy your phone, your way. There is more to come from Samsung on the S6 too. The device is ready and equipped for Samsung Pay, Samsung's NFC payment technology, but this won't be launched until later this year. Samsung is also releasing frequent updates for the S6 as it is such a new device, bringing improved performance, additional features and the very latest Android version in tow.



# Edit your quick settings panel

## Tailor your quick settings to suit you

The quick settings panel is the bar that appears at the top of the screen when you pull down your notifications. On stock Android Lollipop the toggles have a screen of their own accessed with a two finger pull-down or by pressing a button, but Samsung have taken a slightly different approach. As with previous versions of the TouchWiz software, in the standard view there are just five toggles visible, however, this is scrollable left and right (an action that might not be immediately obvious) to see up to ten additional buttons.

If the toggles provided by default aren't to your liking, pressing the edit text at the top of the notification pull-down opens a configuration page, where items can easily be added or removed. The order of the items can also be changed in this screen by clicking and dragging the icons. Below the quick settings panel itself sits the brightness slider and the S Finder / Quick Connect buttons. Unfortunately, these are always displayed and can't be removed.

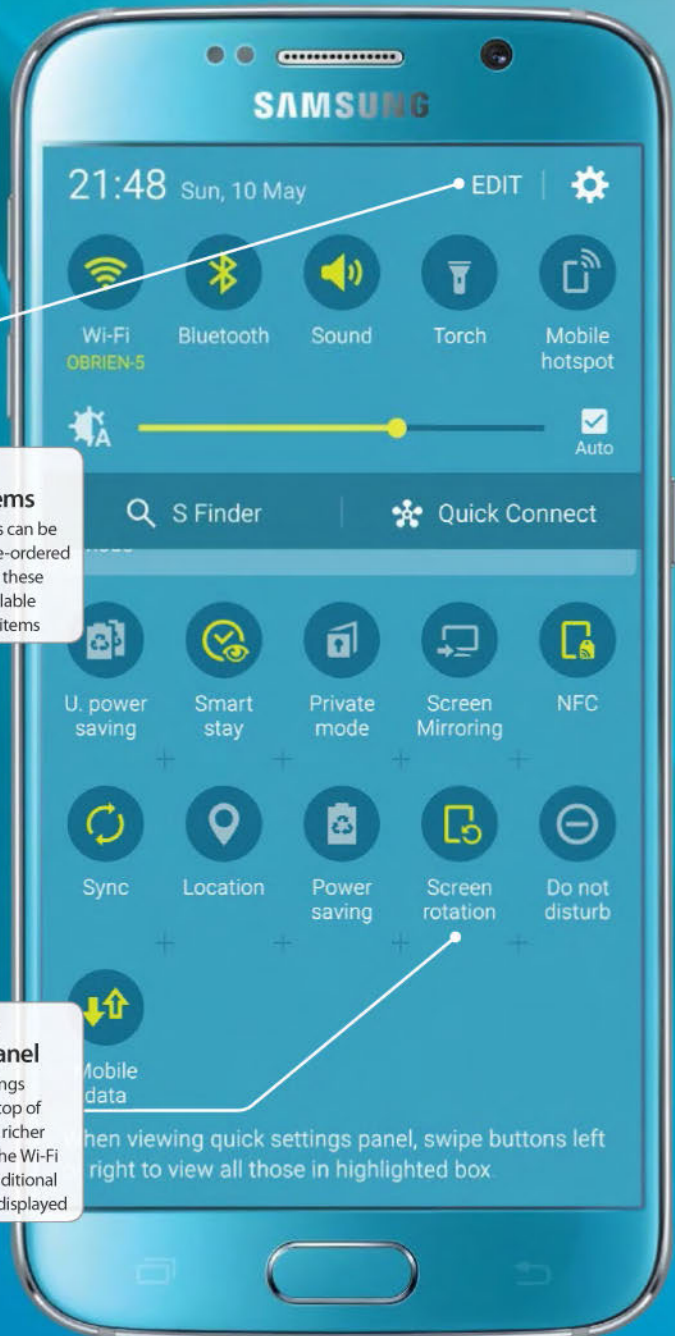
**"As with previous versions of the TouchWiz software, in the standard view there are just five toggles visible"**

### Add and remove items

Up to ten items can be dragged and re-ordered in this screen – these will be the available quick settings items

### The quick settings panel

The quick settings panel is at the top of the screen. For richer items such as the Wi-Fi connection, additional information is displayed



When viewing quick settings panel, swipe buttons left right to view all those in highlighted box



## Backup your photos

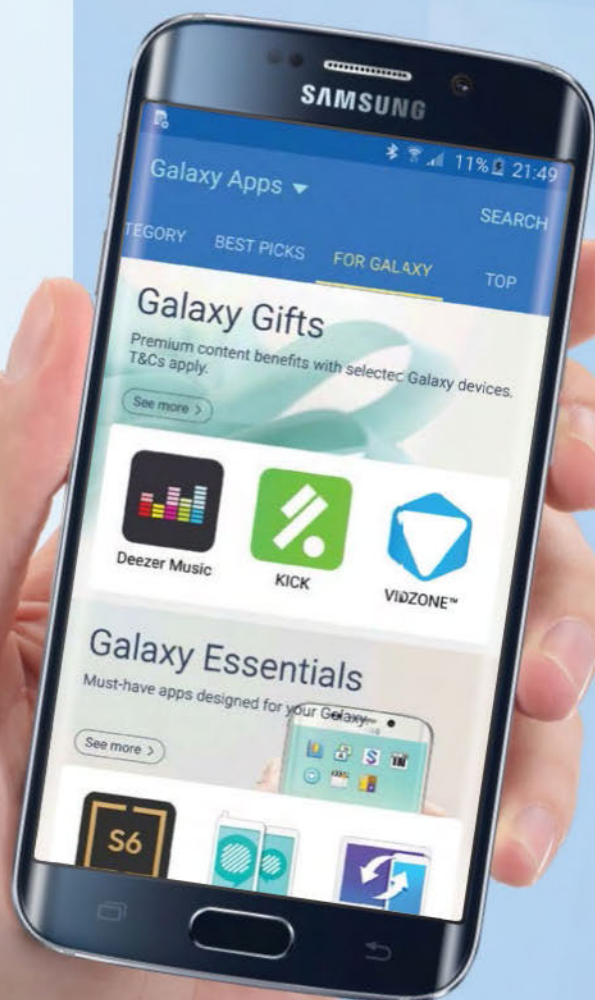
The Galaxy S6 and S6 Edge both take stunning photos, so it's a very good idea to ensure that if you lose your device for any reason, your photos are backed up! Samsung include two tools on the S6 suitable for this purpose – Google Photos, the solution that backs up to Google Drive, and OneDrive, the equivalent Microsoft application. Both have options to enable backup only when on a Wi-Fi connection to save your data allowance and both include a generous amount of free space.

## Get Samsung free bonuses

The Galaxy S6 devices include a host of free bonus content from Samsung and their partner companies. As well as free service and storage from Google and Microsoft, benefits include three months of unlimited music with Deezer, free access to Vidzone video streaming, a free book each month for 12 months from Amazon Kindle, three months of free audiobooks, three months free Evernote Premium and more. Additional applications from Samsung can be downloaded.

## Install bonus content

Grabbing your free content from Samsung is quick and easy



### 1 Galaxy Apps

The free content with your S6 is branded Galaxy Gifts and is installed from the Galaxy Apps application in your launcher. The app will likely update itself the first time it is launched. A Samsung login is also required.

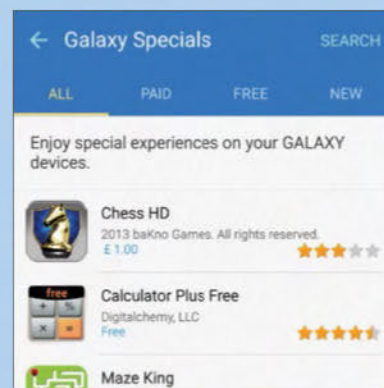
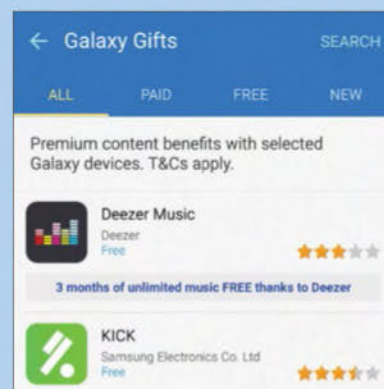
### 2 Download and install

After launching Galaxy Apps, navigate to the For Galaxy tab and click 'See more' on the Galaxy Gifts section. Entries can be filtered by paid, free or recently added – useful to check if there's any new content was added since you last opened the app.

### 3 Galaxy Specials

As well as the Galaxy Gifts section, a Galaxy Specials category is also included. This lists apps that are exclusive or specifically optimised for Samsung phones. These too are installed from within Galaxy Apps and categorised by paid and free options.

“Entries can be filtered by paid, free or recently added - useful to check if new content was added lately”



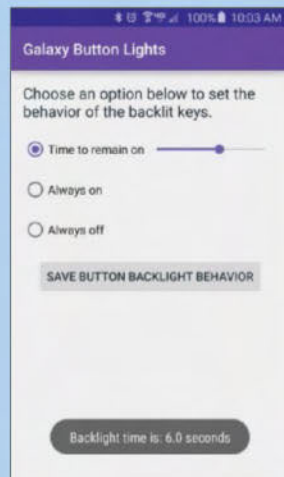


# Best apps for the Galaxy S6



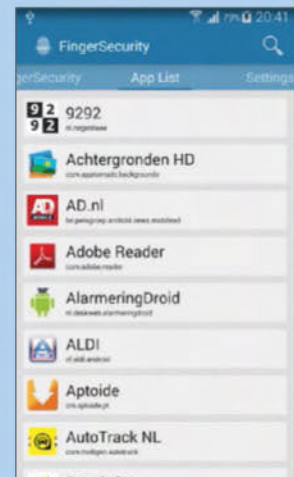
## Galaxy Button Lights

Inexplicably, Samsung have removed the option on the Galaxy S6 to change the duration of the backlight for the capacitive buttons. This app lets you do so or even disable the light altogether, useful if you've reversed the order of the buttons as they then become virtually invisible to you.



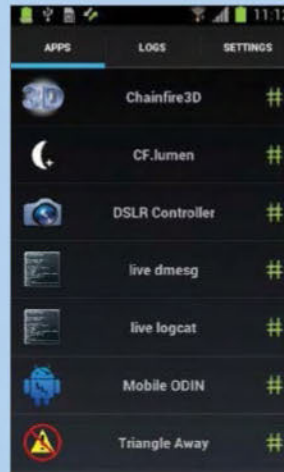
## FingerSecurity

FingerSecurity is one of the first apps to take advantage of third-party API access to the fingerprint sensor on the Samsung Galaxy S6 devices. This application lets you secure access to individual apps on your Galaxy device, with advanced options to enable locking only when you're away from certain, previously specified locations.



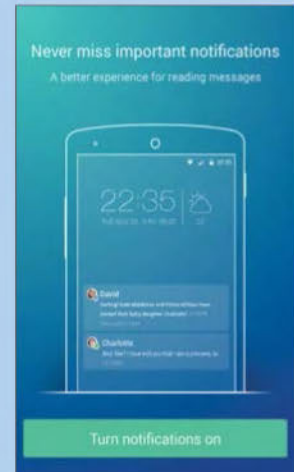
## CF-Auto-Root

CF-Auto-Root is an automated utility for rooting your Samsung Galaxy S6 device. Using this tool is quick and extremely easy, however, it does trip the Knox flag, preventing use of Knox and potentially Samsung Pay in the future. PingPongRoot is a new, alternative option that doesn't have this drawback, so check that out too.



## CM Locker

CM Locker (Security, Booster) from Cheetah Mobile is a lock screen replacement that includes support for the fingerprint sensor on the S6. Advanced features include intruder selfies, repeating notification reminders, battery drain detection and more. The lock screen includes shortcuts for recent apps, weather, torch, camera, calculator and more.



## Manual Camera

Lollipop adds a new API – Camera2 – to give third-party applications access to the low-level camera, so the user installed applications can take advantage of full manual control and the ability to shoot RAW images for professional photographers.



## Up by Jawbone

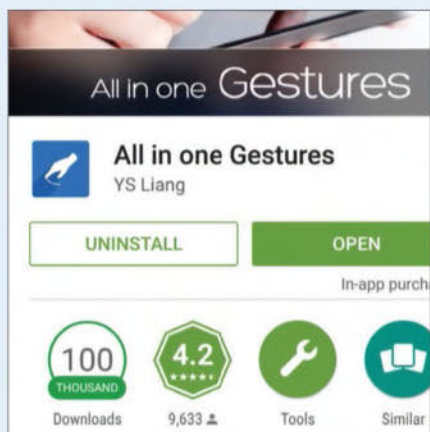
As with previous generations of the range, the Galaxy S6 includes S Health for health tracking including heart rate monitoring and step counting. A key element of fitness tracking is competing with friends, something that's enabled with the Up by Jawbone app, supporting both the company's fitness bands and the S6's in-built sensors.





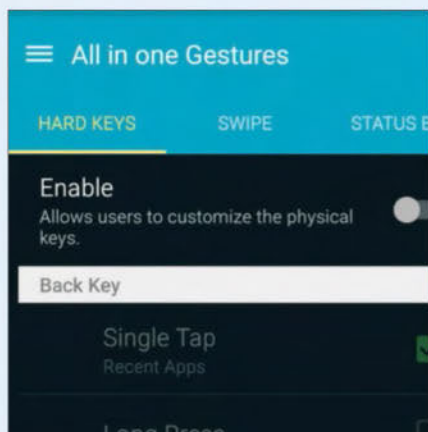
# Reassign the capacitive buttons

Easily swap the recent tasks and back buttons



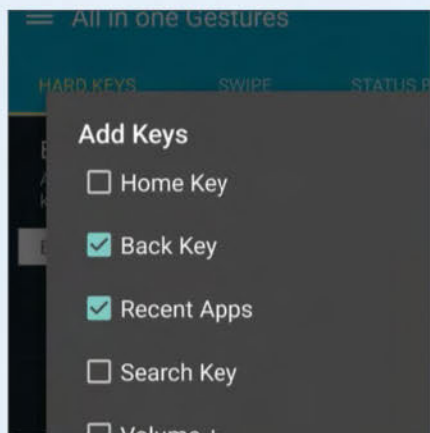
## 1 Install 'All in one Gestures'

The Galaxy S6 devices are unique in Android with the recent apps button on the left of the home key and the back button on the right. 'All in one Gestures' from the Play store enables them to be easily swapped around.



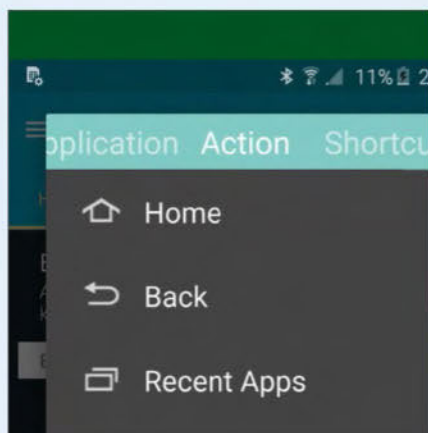
## 2 Get accessibility access

After launching the application and choosing to re-assign the Hard Keys (physical keys), you're prompted to enable accessibility access. Click the banner and activate 'All in one Gestures' in the services list. Press back to return to the app.



## 3 Display the back and recent buttons

By default the Hard Keys section of the application will show the Home Key and the Back Key. Press the + icon in the bottom corner, uncheck the Home Key box and check the Recent Apps box.



## 4 Reassign the buttons

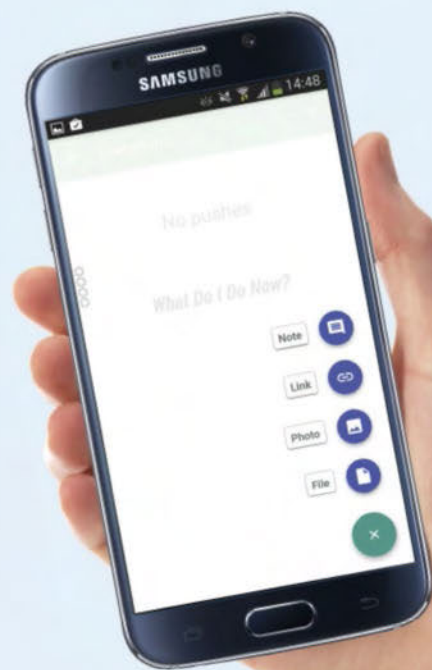
Press the toggle button at the top of the screen to enable customisation on the physical keys, tick the Single Tap box for the back key and select Recent Apps, then do the same for the Recent Apps key and select Back.

# Boost your download speeds

If you have a particularly huge file to download and both a Wi-Fi and LTE connection available, the phone can team the connections for a super-fast download speed. The function is activated via the Settings mode in the phone, labelled as Download booster. If the option is checked, the function is automatically activated for files over 30MB in size. Keep an eye on your data download allowance if you are using this feature, though!

# Enable double tap to sleep

The physical home button and fingerprint reader is one of the greatest features of the S6, meaning that you never need to use the power button to wake the device. You do still need to use it to turn the device off, however, unless you use another neat feature of 'All in one Gestures'. The app enables you to assign an action to a double tap of the top status bar, such as turning off the screen and locking the device. With this enabled, the behaviour emulates rival devices such as the LG G3 and you need never use the power button!





## Connect the S6 to your car

**“This is particularly useful for satellite navigation apps”**

Many modern cars are now including MirrorLink functionality in their entertainment systems. As the name suggests, when the S6 is connected to a MirrorLink enabled car using a USB cable, the device's screen is disabled and the content is mirrored on the entertainment display of the car. Touches on the screen of the car are also replicated back to the device – this is particularly useful for satellite navigation apps. On first connection, the S6 will download a custom UI tailored for use in the car.

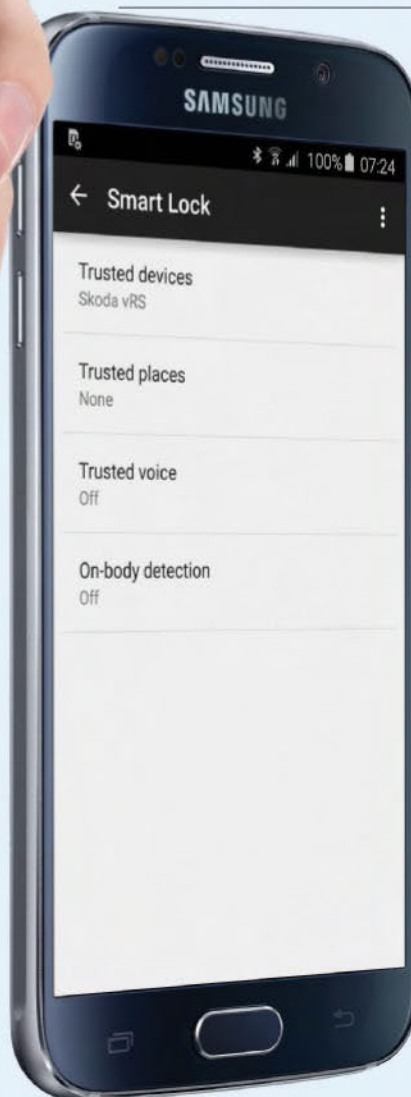
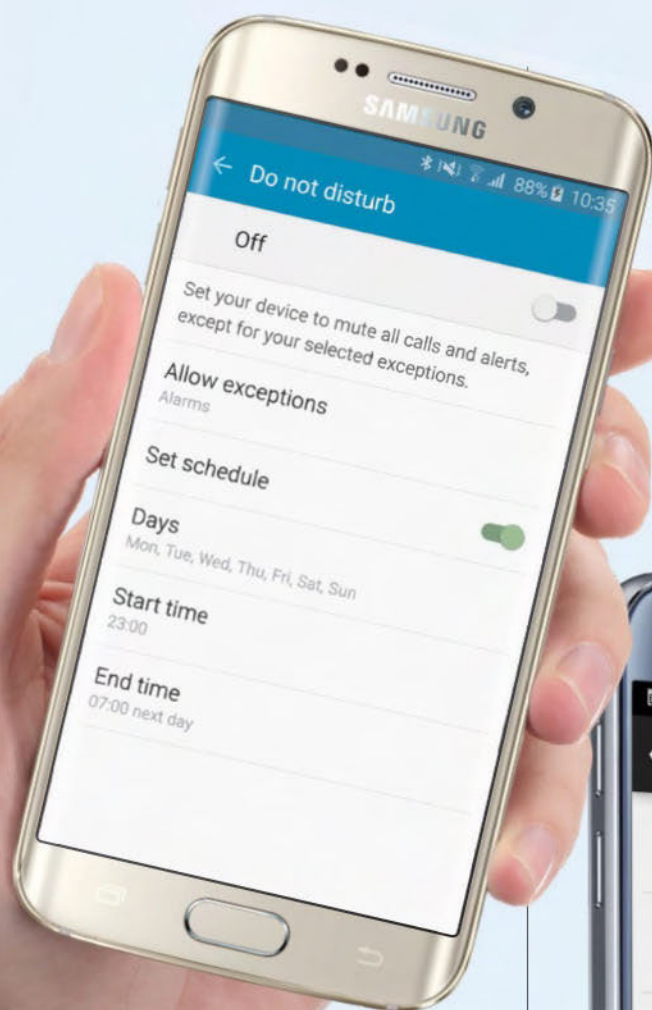
## Take advantage of Smart Lock

Android Lollipop together with Google Play Services adds functionality called Smart Lock, where various different functions can be used to determine whether or not the device should be locked. Features include location-based lock and Bluetooth-based lock, as well as face recognition, voice recognition and 'On-body detection'. With the particularly effective fingerprint sensor on the S6, Smart Lock becomes less important, however, it is still worth enabling for situations where placing a fingerprint on the phone might be awkward, such as when the phone is in a car holder. For this scenario, Smart Lock based on a Bluetooth connection to a car is ideal.

**“Features include location based lock and Bluetooth connection based lock”**

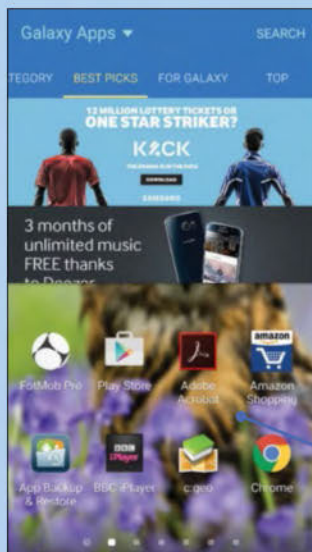
## Enable 'Do not disturb'

Instead of the Lollipop priority notifications functionality, the S6 includes custom 'Do not disturb' functionality, which enables the user to mute all calls and alerts with the option to manually configure alarms, calls, messages, events and reminders or specified apps as custom exceptions. 'Do not disturb' can be enabled or disabled manually or configured to automatically activate between certain times, such as 11pm-7am on weekdays. A button can be added to quick settings to easily toggle the feature on or off.

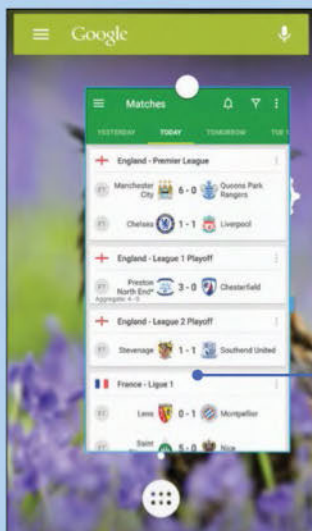




# Use multi window modes



Multi window can be used as a split screen



...or as a floating window

## Enabling multi window viewing

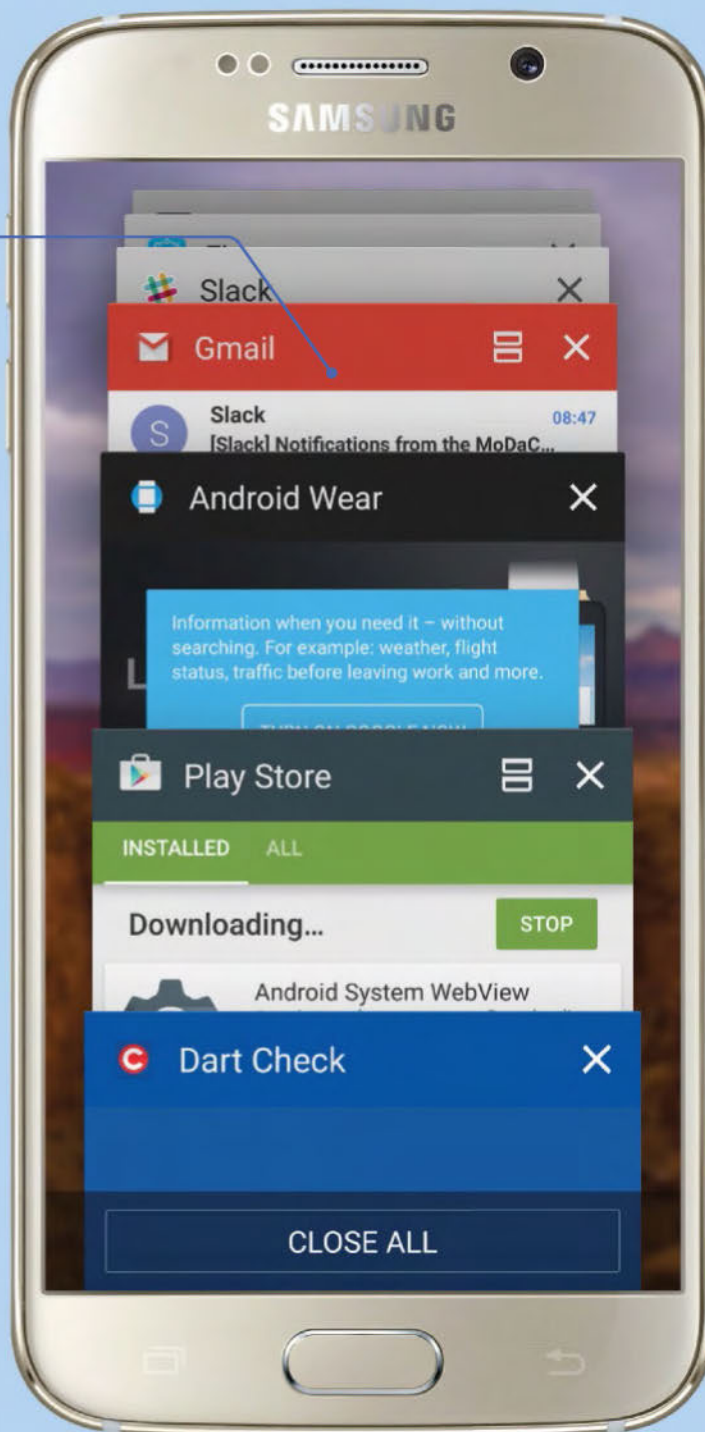
Multi window is enabled from the recent apps page – look for the two rectangles by a close button indicating that an app is compatible

## Split screen mode

The default multi window settings is a split screen mode – the chosen app opens at the top of the screen with a launcher underneath

## Floating window

Applications can also be opened in Windows that float on top of your other apps, which can then be resized or moved to suit you



“The chosen app opens at the top of the screen with a launcher sitting underneath”



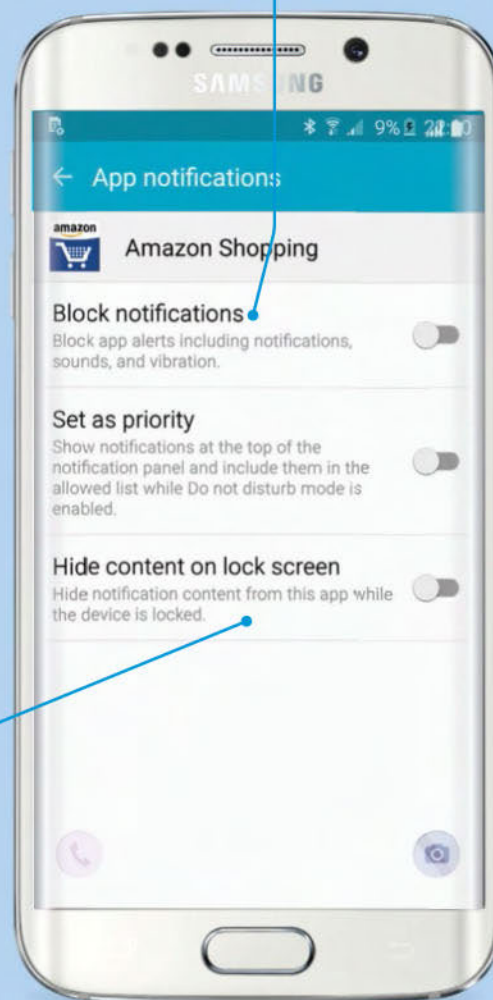
# Manage system and application notifications

The App notifications option in the Settings menu enables the user to manage notifications for any installed app on the device. In addition to the global 'Do Not Disturb' functionality, this option enables more granular control of which notifications appear at all times. The option to block notifications completely is available for all apps installed by the user and some system installed apps, while the ability to hide sensitive content from the lock screen is available for all apps. Notifications can also be set as high priority which ensures they are displayed at the top of the list in the notifications pull-down (this flags that they should be displayed in 'Do not disturb' mode).

When adjusting the volume on the S6, the 'cog' button enables granular control of different volume settings, including setting a specific volume for notifications, letting them be effectively muted while other sounds still play. By default, the S6 also has a LED indicator that is used to indicate when notifications are waiting to be addressed – this can also be disabled in the Settings menu.

## Completely block notifications

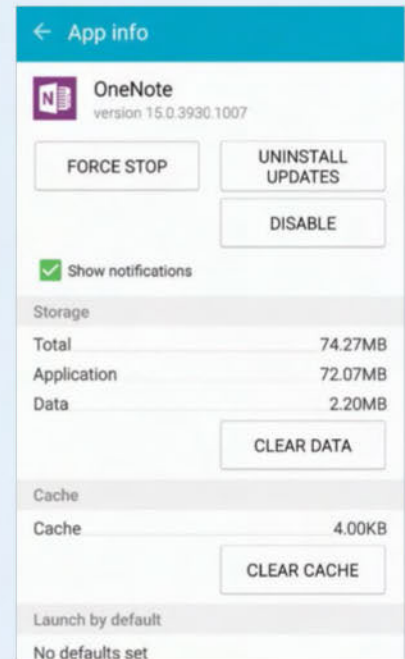
Notifications can be blocked completely, which means the pull-down notifications will not be displayed and sounds



## Notification privacy

As well as disabling notifications completely, they can be hidden just on the lock screen when the device is locked, for privacy reasons

**“The option to block notifications completely is available for all apps installed by the user”**



## Disable preinstalled apps

A few native apps might not appeal to everyone, as well as third-party partner apps such as Microsoft. The good news is that a number can be uninstalled completely, while others can be disabled. Disabling an application sets a system flag that it should not be displayed in the launcher or started in any way whatsoever – the main application file remains on the system partition (although any updates are uninstalled), which means that if you wish to use the app in the future, it can be re-enabled without re-installation. As well as not using system resources by running as a service in the background, space on the data partition that would otherwise be used by updates, is saved.

In order to disable an application, load the Settings app and select the Application manager. You should see a button to disable the app. In the case of what are deemed system critical applications, the button may be greyed out – in this case, the only way to disable the app is to use a root tool such as Titanium Backup or something similar.



## Use the ultra power saver

'Ultra power saving mode' can be activated via the quick settings panel or in the settings application itself, and is a great last resort for when you are away from a power source and running critically short of charge. This mode saves battery power by applying a simplified greyscale theme to your device and limiting available (and background running) apps to the bare essentials. In addition, mobile data will be disabled when the screen is off and Bluetooth and Wi-Fi will be disabled.

## Monitor your battery usage

Although the S6 has a relatively small battery, the actual longevity isn't as bad as many had feared. With that said, however, careful battery management is important to make the most of the power that is available. The Battery section in the settings menu includes a graph of the battery level, screen on time data since the last charge and various statistics to help you track down particularly power hungry apps. For additional data, particularly if you are rooted, third-party applications such as 'BetterBatteryStats' or 'GSam Battery Monitor' will provide a further level of information for you to explore.

## Efficient charging

The Galaxy S6 might have a relatively small battery, but the plus side is that it supports a wealth of charging options. Although wireless charging is built in and is undoubtedly the most convenient, it is also the slowest option. The fastest way to get charged is using the fast charging adaptor supplied in the box or another Qualcomm Quick Charge 2.0 compatible charger. If this isn't available, a standard charger is still faster than a wireless charging pad, albeit a little less convenient.

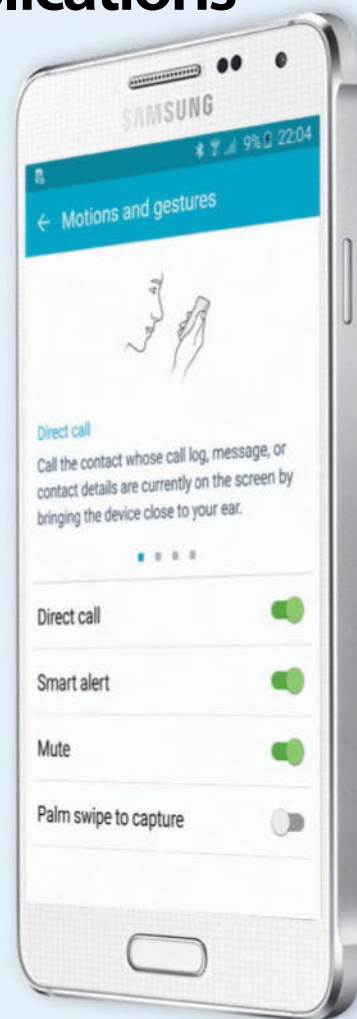
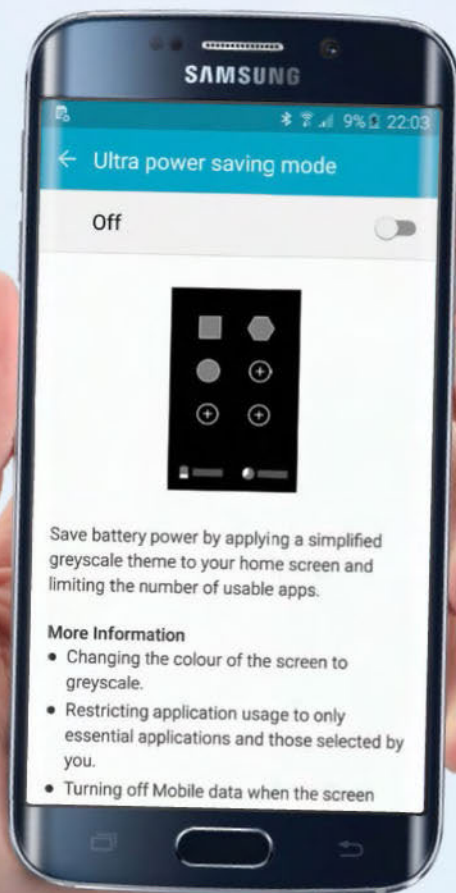
## Change default applications

When installing multiple apps that support the same actions, such as launchers or photo apps, the user is prompted to choose a default for use 'just once' or 'always'. In an improvement over stock Lollipop, Samsung provide a single place in the Settings app to manage these defaults which are normally buried inside individual app details. This is particularly important when installing a third-party launcher, as they have to be selected manually on the S6 devices.

**"The 'Motions and gestures' feature of the S6 enables you to control your device just by moving it"**

## Use motions and gestures

The 'Motions and gestures' feature of the Galaxy S6 devices enables you to control your device just by moving it. Direct call lets you call the contact, whose call log entry, message or details are on the screen, simply by lifting the phone to your ear. With the Smart alert function, your device will vibrate when you pick it up to notify you about missed calls and messages. Placing your hand over the screen or turning the device over will mute any incoming calls and alarms.



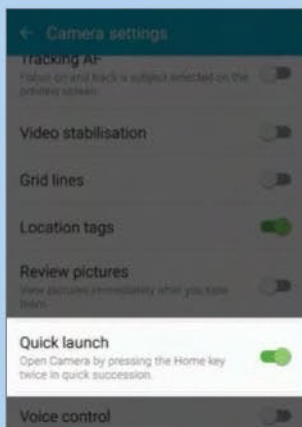


# Make the most of the camera

One of the best feature of the S6 is the camera – take your best pictures with these tips

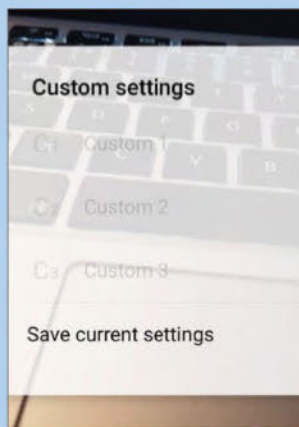
## 1 Quick launch the camera

The S6 camera opens super fast and is easy to open from the lock screen using the shortcut in the bottom right. But you might not know there is an even quicker way! Simply double tapping the home button instantly opens the camera in a secure mode if your device is locked.



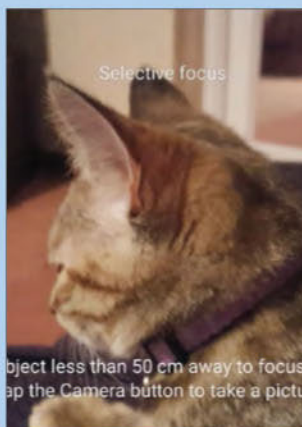
## 2 Shoot like a pro

As well as the excellent fully automatic mode, the Galaxy S6 camera includes a pro feature for manual control, accessed by pressing the mode button in the bottom right of the capture screen. A host of advanced settings can be configured and saved as custom presets.



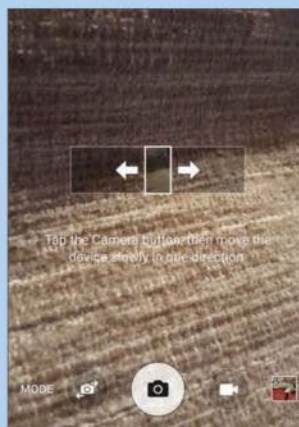
## 3 Add a bokeh effect

The bokeh effect on photos is where the foreground is in sharp focus but the background is blurred. This happens automatically for some shots and with high-end lenses, but the S6 has a mode to enhance this effect called Selective focus – photograph less than 50cm away to use.



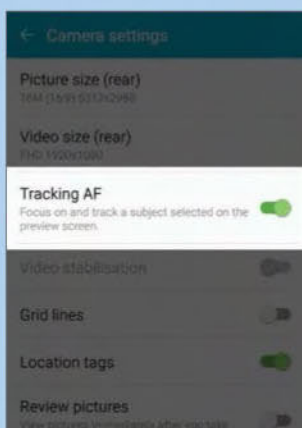
## 4 Panorama mode

The Samsung Galaxy S6 includes a panorama mode for taking large, high-resolution vistas. In addition to landscape mode from left to right or right to left, the phone can also capture panoramas in vertical orientation for higher quality images. Each image is taken at quite an amazing 6MP resolution.



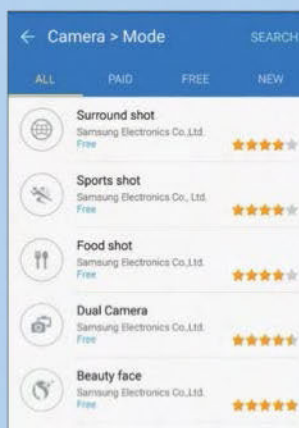
## 5 Track moving subjects

The Samsung Galaxy S6 camera is super-fast to focus, but it also has another trick up its sleeve that helps you take great pictures of fast moving subjects. It has a tracking autofocus function – after selecting a subject, the Samsung phone will then automatically maintain focus on the chosen target.



## 6 Download additional modes

As well as all the built in modes in the S6, a host of additional features are available for download from the Galaxy Apps store by selecting the Download option in the Camera app, including Surround shot, Food shot, Dual Camera, Beauty face and our favourite, Animated GIF.



# Tips

Get the very best from Android's core apps by working with their advanced functions



**48** The best photo editing advice

**20** Get the most out of Android 5.1 with your Galaxy

Discover the benefits of the latest update to Lollipop and why you need it

**24** Learn how to use advanced navigation on your device

Finding your way around can be a lot easier, and more beneficial

**28** Get the most out of next-gen mobile browsing

See how you can do more on your phone or tablet's browser

**32** Do more with your mobile e-mail

Learn how to reap the benefits of advanced e-mail providers

**36** Master mobile Microsoft Office on a Galaxy

Learn how to use Word, Excel and Powerpoint on a Samsung Galaxy

**40** Work on the go with your Samsung Galaxy device

Everything you need to keep in touch with the office is right on your device

**44** Learn how to replace your laptop with your Galaxy

Can you use your phone and tablet to replace a desktop?

**48** Become an expert at mobile photo editing

Prepare your photos for social media with these handy tips

**52** Reduce your data usage and save money

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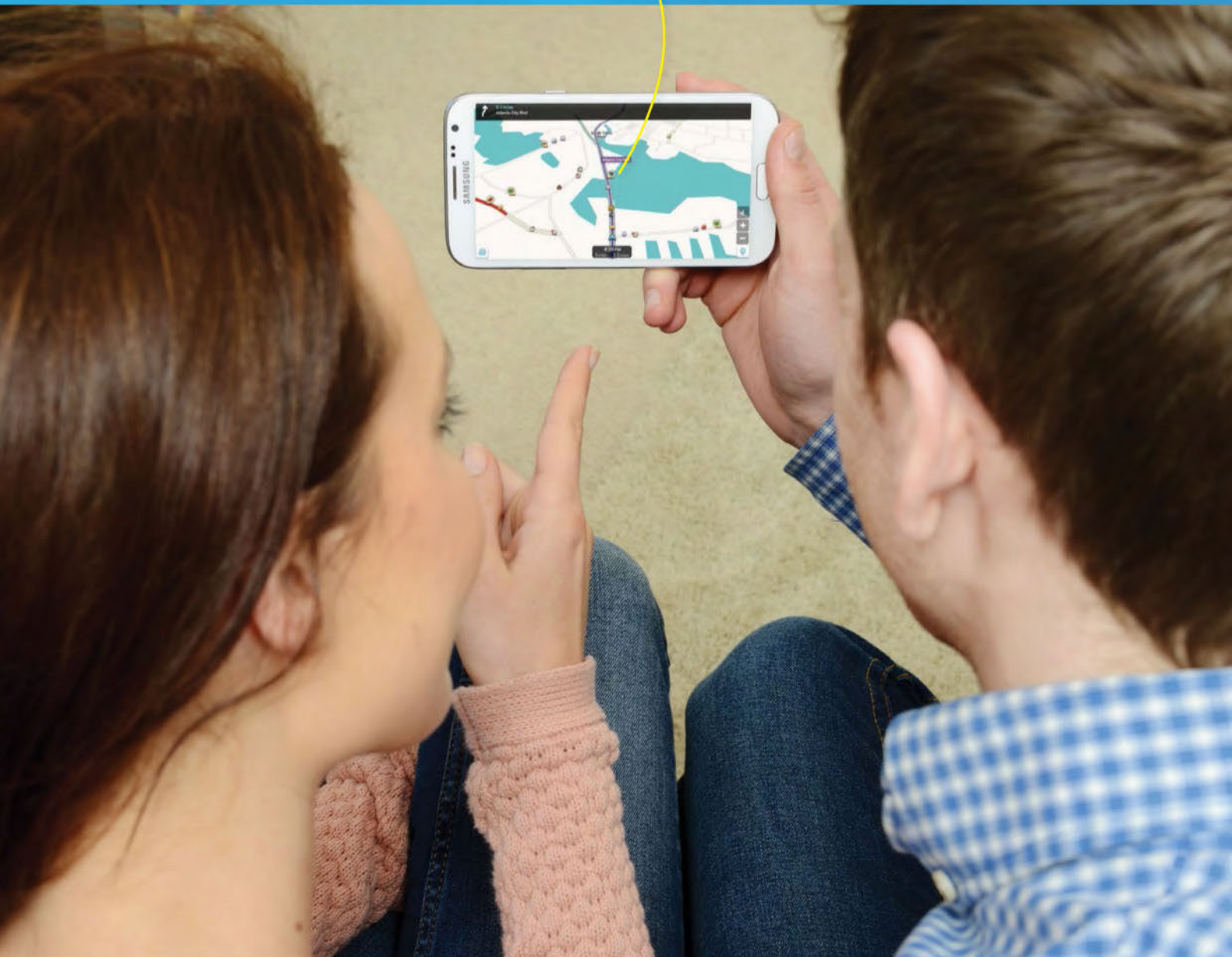
Your phone will run faster without all that clutter - find out how to get rid of it

**"By making your Galaxy into a scanner, you can work from home"**

## TOP TIPS

- ✓ Browse the web
- ✓ Transfer data
- ✓ Download apps
- ✓ Communication
- ✓ Watch movies

## 24 Use advanced navigation apps





# Get the most out of Android 5.1

We will show you how to get to grips with the latest Android update

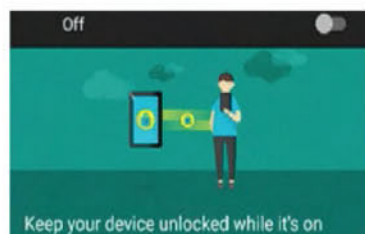
The launch of Android Lollipop has been a bit of a mess, with many Android phones yet to get the update. Indeed the latest polls suggest that more people are using ancient Android systems like Ice-Cream Sandwich and Gingerbread than Lollipop, which is still only on 12.4 percent of devices.

Despite this, a number of users have already been receiving Lollipop updates, with select devices upgrading to Lollipop 5.1, which has come with a raft of improvements. While most of these are purely aesthetic, Google has listened to the Android community giving users interesting new features and re-introducing features that were removed, such as silent mode.

If you're lucky enough to get the update, read on to find out how to make the most of it.

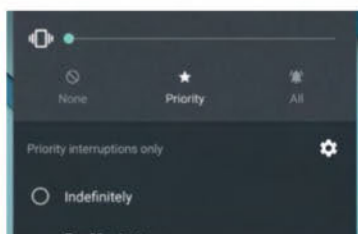
**"Google has listened to the Android community"**

## Android 5.1 | New design features



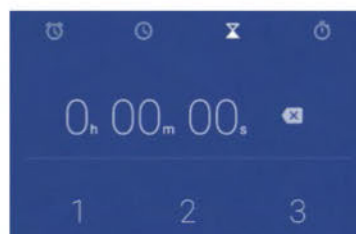
### On-body detection

It can be frustrating when your phone locks while you've got it in your hand, so Android 5.1 new security feature fixes this so your phone will stay unlocked while it senses you're holding it.



### Better volume control

By pressing the volume button you will now bring up three different options to change the volume for all notifications, just priority notifications or to set your phone to ignore notifications altogether.



### Animated time icons

The various modes in Android's clock app now have animations. It's a fun little addition – the alarm clock, normal clock, stopwatch and timer all now have a wiggle or animation whenever activated.

## 5 things to know about Android 5.1

### 1. It makes your phone faster

Ars Technica benchmarked two Androids, a Nexus 6 and a Nexus 5, running Lollipop 5.0 and then 5.1. They noticed a huge improvement in the Random Read and Write scores, so your updated phone should feel faster in general navigation. However, there wasn't much difference in the Sequential Read and Write benchmarks, so loading games will not be much quicker which is a shame.

### 2. Four cores switched on

In Android 5.1 all four cores in a quad-core phone are always on so should react faster when needed. This is great a change from Lollipop 5.0, when two of the cores would shut down when not in use, resulting in a much longer loading time.

### 3. Switch between sims

Android 5.1 will now support two separate sim cards. This means that if your phone is a dual-sim phone, you'll be able to switch between the two sims quickly and easily.

### 4. Getting the update

At the time of writing only Nexus devices had received the update, but updates should be here, or on the way, for all Samsung Galaxy devices, as well as preloaded on several phone models shipped after March 2015.

### 5. Fixed bugs

One of the most common frustrations for smartphone users is sudden app closure, but Google says the update should fix bugs that cause these closures.

## Why am I not updated immediately?

When an update is announced, there is still a lot of work going on behind the scenes. There is a version for developers, but updates for users come via the carriers, who make sure it doesn't break your phone.



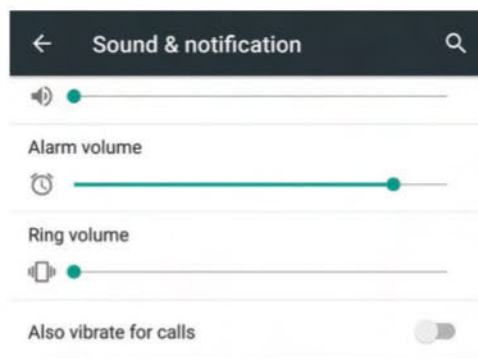
# Avoid interruptions

Stop people interrupting you in your downtime

One of the great benefits of mobile technology is also one of its greatest curses. With your phone beside you all the time you are always contactable, and thus, constantly bothered by notifications. Many studies have shown the link

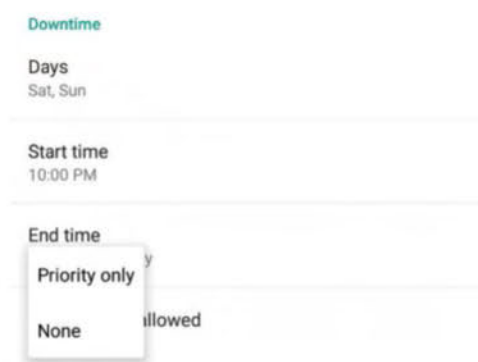
between increased levels of stress always having your smartphone on you. However, Android 5.1 has built on Lollipop 5.0's Interruptions and Downtime modes to give you more choice, so you can decide to let the world be for a change.

## Downtime modes | Achieve peace and quiet



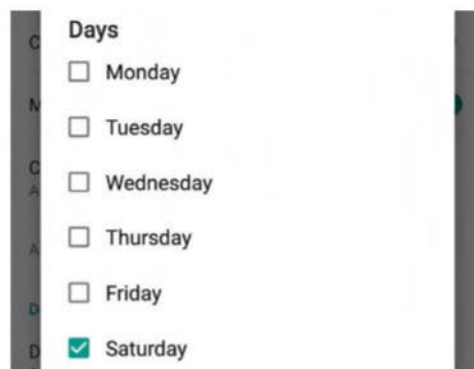
### 1: Enter your settings

Start off by pulling down the top menu and press the Settings icon. Scroll down to the Sound & Notification option and give it a tap. Around halfway down the next menu you should see a menu option for Interruptions.



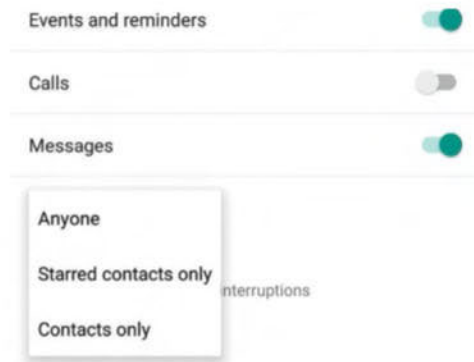
### 3: Select your interruptions

The previous version of Lollipop only let you select Priority Interruptions, such as alarms and messages from important contacts, but now it gives the None option, meaning your phone won't go off for anything - complete and utter silence. Especially handy for at night or during a theatre showing.



### 2: Choose your downtime

Tap this and then enter the Interruptions screen. Scroll down until you see the Downtime menu. From here, you can select the specific days and times during which you want to avoid being disturbed by notifications.

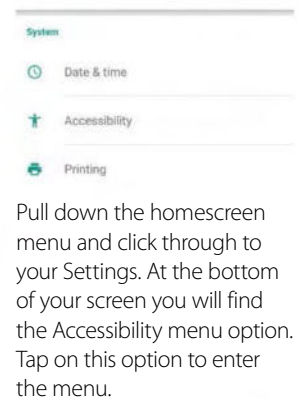


### 4: Set priorities

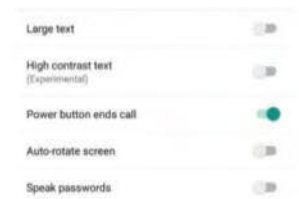
Priority interruptions let you decide what notifications go off during your downtime. Alarms are always a priority - you don't want to oversleep - but you can select messages or calls from particular contacts by turning one on and choosing a particular option.

## Off-button to end calls

Android 5.1 now lets you use the power button to quickly end a call



Pull down the homescreen menu and click through to your Settings. At the bottom of your screen you will find the Accessibility menu option. Tap on this option to enter the menu.



Scroll down until you see the 'Power button ends all' button. You can press the slider to select this option to use the power button to end calls, something that wasn't available in Lollipop 5.0.



Test it out by making a call. Instead of pressing the End call button on your phone's screen, which often doesn't appear for a while, you can now end calls promptly with this new method.



# Lock pinned screens to the homescreen

You can now lock pinned screens to your homescreen for easier access

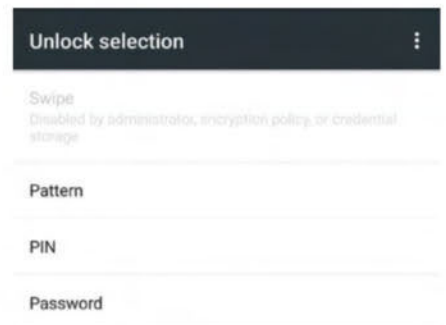
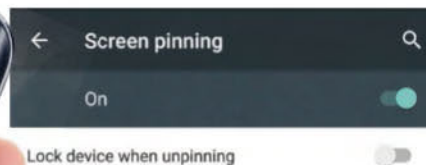
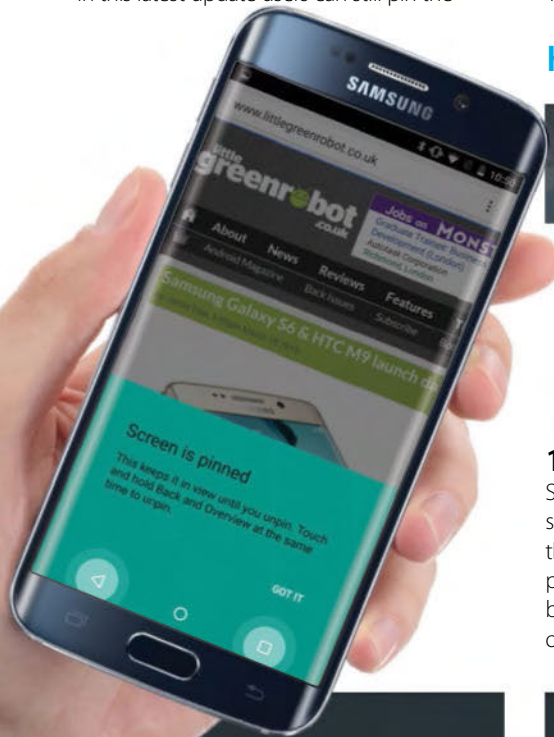
Screen pinning was a brand new feature in Lollipop, enabling users to lock a particular app to the screen so they couldn't navigate away from a page with an accidental swipe. This has proven to be a very popular feature with users, and therefore Google has now pushed on with it and developed it further. In this latest update users can still pin the

app to the screen but you can also change the settings so you would require an unlock code, such as a specific pattern or password, to unpin it.

This is essentially an added safety device in case you leave your phone unattended with an app running and someone else grabs it. This person then can't get into the phone

without knowing the code, whereas before, two button presses would leave the device – and your sensitive information – wide open for them. In this short tutorial, we will explain to you just how to set up the extra lock screen for when you're in pinned mode, so you can feel safer if you need to leave your Galaxy device unlocked.

## Homescreen | Lock pinned screens

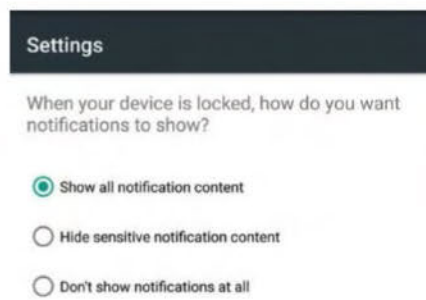


### 1: Enter security settings

Start by pulling down the top menu and then scroll down to Security. Tap that and scroll all the way down again until you see the Screen pinning option. This will be turned off to begin with, unless you've already activated it on Lollipop 5.0.

### 2: Unlock pattern

Tap on Screen pinning and then tap the slider to turn screen pinning on. You will then see an option to ask for an unlock pattern before unpinning. Tap that slider to activate this setting. This will automatically bring up an option menu.



You can further protect this device by requiring your pattern before it starts up. Until the device starts up, it can't receive calls, messages, or notifications, including alarms.

This helps protect data on lost or stolen devices.

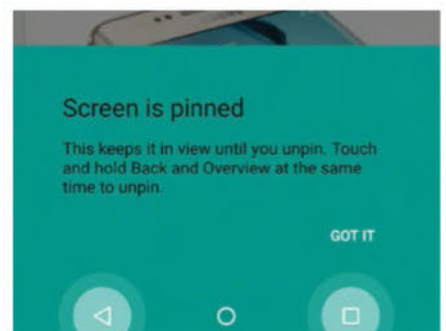
☐ Require pattern to start device

### 3: Choose your unlock code

Decide which of the unlock options you want to use and select that option – swipe isn't an option because it provides no real security. You can choose to activate the lock before start up, preventing a thief from even turning the phone on.

### 4: Choose security settings

Having set your unlock method you can then decide what notifications appear when the lock screen is in use. This ranges from all notifications to none at all. Choose your desired option and click done. This is all now set up.



### 5: Pin screens

Press the Overview button to bring up the pages you have open and choose one to pin. If you try and exit the pinned screen by pressing Back and Overview, your unlock option will appear which you'll need to enter before proceeding.

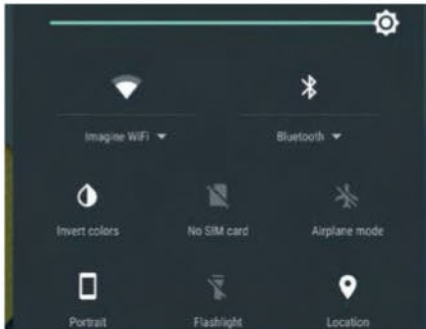


# Customise quick settings

Find your way around your Android more easily with this new feature

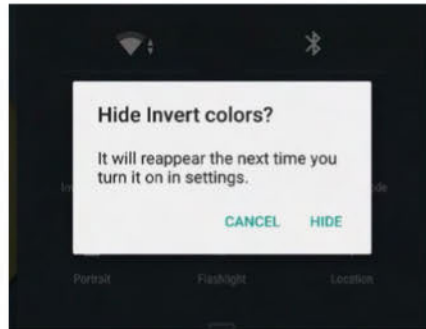
The quick settings pull-down menu for Android devices has undergone a lot of changes over the last few iterations of Android, but this is one of the first for a while that can be considered really useful. Android 5.1 now has some drop-down arrows in your menu screen from which you can quickly find Wi-Fi spots and Bluetooth devices to connect to. It's not

exactly what you'd call groundbreaking but you will definitely appreciate it in the long term. You are now also able to customise the settings menu by adding and removing icons to and from it. This quick guide will show you what changes have been made to the drop-down menu and how you can learn to take advantage of them.



## 1: View menu

This is one of the first changes you are likely to notice about Android 5.1. As you pull-down the homescreen drop down menu, you should notice that under the Wi-Fi and Bluetooth headings is now a small arrow that wasn't there before.



## 2: Quickly join networks

Tapping on this arrow brings up a list of Wi-Fi networks in your area or available Bluetooth devices in your vicinity. This is similar to the list you'd usually get but found after just one click in the home screen rather than after a hunt in the Settings.

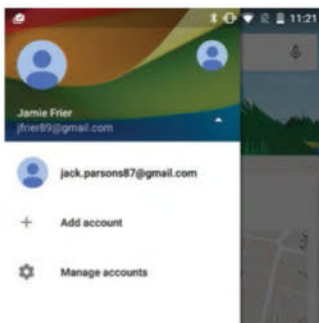


## 3: Customise quick settings

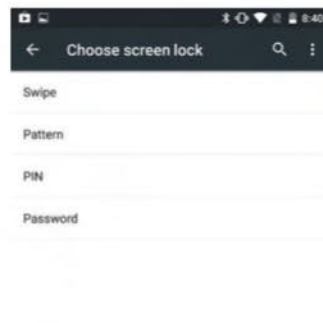
You can also edit certain things on the menu. Invert Colours and Wi-Fi hotspots, when activated via Accessibility and Wi-Fi respectively, appear on the Quick Settings drawer. Remove them by longpressing and selecting 'Hide'.

# Make your Galaxy thief-proof

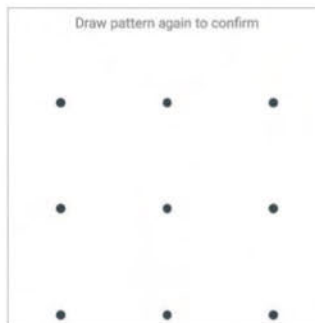
Set a passcode to make sure your phone is unusable if it has been stolen



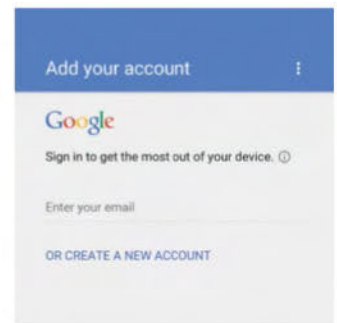
If your Galaxy is new, set it up with your Google account with the set-up instructions. If you are updating an existing Galaxy, it's likely that you have already done this. This will then provide your automatic safety feature.



Pull down the homescreen menu and click the settings icon. Scroll down and press on the Security menu option. This will reveal a Screen Lock menu for you to tap. This will give you four options – Swipe, Password, Pattern and PIN.



Choose your preferred screen lock and set it, confirming that pattern or code. This will protect your device from thieves. However, Google has added a secondary security feature with Lollipop 5.1 to keep your data safe.

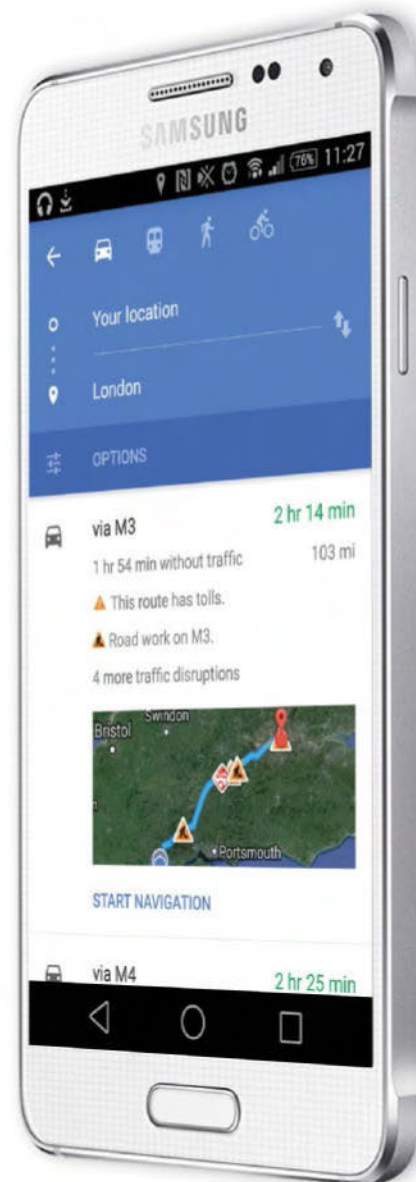


If your Galaxy gets stolen, report it instantly and it will be locked down. Even if the thief does a factory reset, they can't access it as the new safety setting needs your Google account details to be entered before it'll give access.



# Advanced navigation

Get more out of Google Maps with these top tips



Google Maps has long been the staple app for anyone needing directions on their Galaxy device. While the latest update doesn't necessarily have a host of new features, it does refine many of most useful ones instead. Many of the tools to help you get from A to B have been made easier to use, while there's even more integration with other Google apps.

You'll find a practical guide to help you get started with saving your favourite maps for offline viewing when a mobile network isn't readily available, as well as using Maps as a great resource for finding recommendations on nearby places. There are also quick guides on setting primary locations with Maps, customising planned journeys to suit your needs and also sharing a location. To get you started, here our five top tips for getting the most out of Google Maps.

## 1. Use more gestures

As well as zooming in and out with two fingers, by moving two fingers upwards simultaneously, you can tilt the screen. Similarly, use two fingers in a circular motion to rotate the map.

## 2. Leave a review

After visiting one of the places on the map, make sure to leave a review for it. When you then search for the place using Google, your review will be listed under the reviews section.

## 3. Control with your voice

When using the navigation feature, don't forget it's possible to use your voice to control certain aspects. Instead of illegally typing out messages while driving, press the mic icon within the search bar and start speaking to get started.

## 4. Changing routes

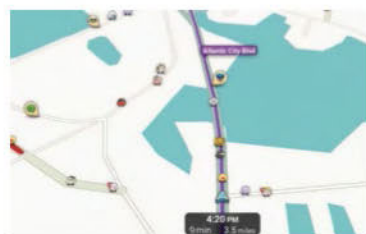
If you've hit bad traffic, look for the crossroads symbol on your screen to get an alternative path for you to follow. It could potentially be a more confusing journey, but you should avoid any major traffic build-ups.

## 5. Distance units

Whether you prefer kilometres or miles, Maps caters for both. The app uses miles by default, but by going to the Distance Units menu within settings, you can change this to kilometres.

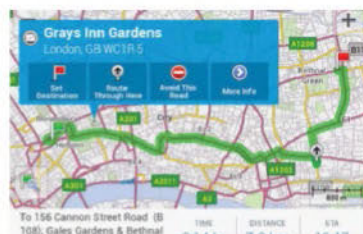
## Three alternatives to Maps

If Google Maps isn't for you, try these out instead



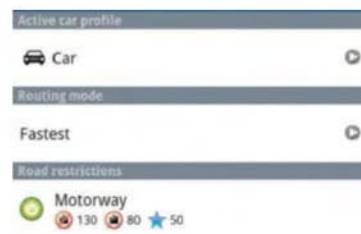
### Waze Social GPS

**Simple navigation**  
What we love about Waze is that it makes it very easy to tailor a journey to your needs. There are also numerous options to help you change your route while driving if you hit a congested stretch of road.



### CoPilot GPS

**Offline mapping**  
Although CoPilot can be expensive if you want to buy various map packs, it remains one of the most thorough offerings. Users can download whole countries for offline use – perfect if you're doing a spot of travelling.



### MapFactor

**Completely free**  
MapFactor is a big deal in community-based mapping, where users can upload details of roads, buildings and other info to help people navigate. It's surprisingly detailed and a great alternative to similar apps.

## Will use of Maps drain my battery?

Unfortunately, yes. Maps is a battery-intensive app that, due to the power it needs, will deplete a battery quickly. It's best to use it sporadically and make sure the Location setting isn't constantly activated.



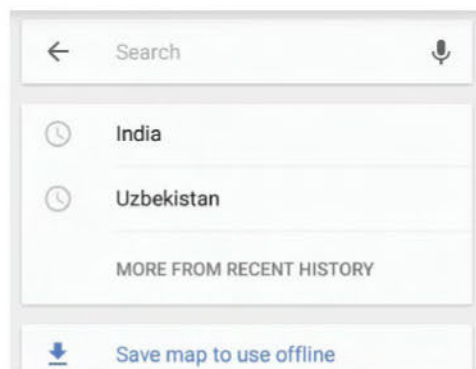
# Save maps for offline use

Still find your way around even when you're in a signal dead zone

Although Google Maps does need a mobile network to fully navigate, users can plan ahead by downloading selected areas for when a secure network isn't available. This is especially useful when abroad to avoid costly roaming

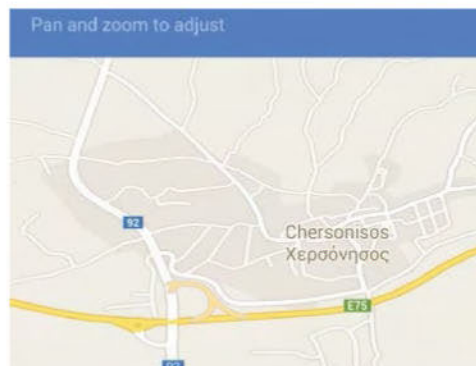
charges, and all it takes is a few minutes. Although a great feature to use, it's important to remember that every time you download an offline map, more of your internal storage will be taken up, so make sure to delete stored maps you're done with.

## Google Maps | Saving maps



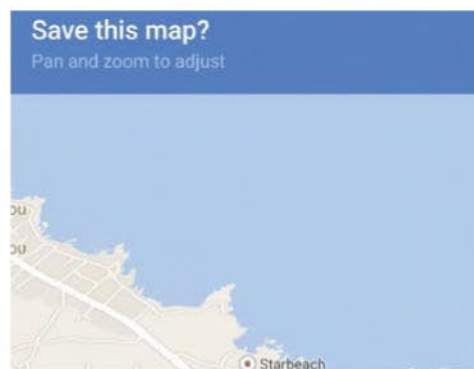
### 1: Load and search

Use the search bar to find an area that you want to save for offline use. Then press on the search bar a second time and tap the X to discover the 'Save map to use offline' option under the results. Press it and then wait for your designated map to once again appear.



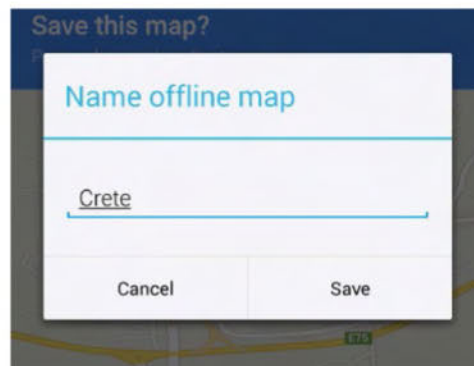
### 3: Resize map

As well as moving the map around, pinch the screen to get a zoomed-in view of the map. This is ideal if you're looking to navigate around a town, or another built-up area. Similarly, drag your fingers apart to zoom out of the map and view a bird's-eye view of roads and local landmarks.



### 2: Save this map?

Instead of the normal Google Maps interface now appearing, you'll instead have a map with a distinctive blue border, with instructions asking you to save the map you've got selected. Move the map around in your display to find the section you want to save.

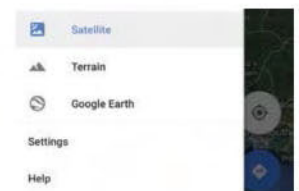


### 4: Add a name

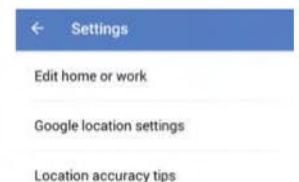
Press the Save button and now add a suitable name to your selected map. Once finalised, the map will begin downloading on to your device. Depending on the size of the map you selected to download, this can take a few minutes to fully complete.

## Edit addresses

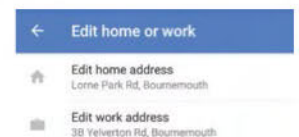
Set primary locations to work within your Google Maps account



To start off, open the side menu from within the Google Maps app before scrolling to the bottom of the menu. Now go on and select the Settings option that's provided here.



There are plenty of options for users to customise and tweak to their preferences here. For the purpose of this tutorial, select the 'Edit home or work' option located at the top of the screen.



You can now edit either your home or work address. Simply press on one of the options and use the provided search feature to add your default location. You'll now be able to navigate to "home" or "work".



# Discover nearby attractions and weather

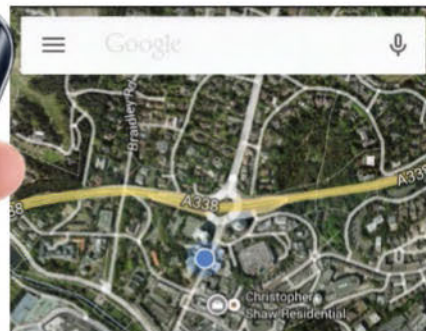
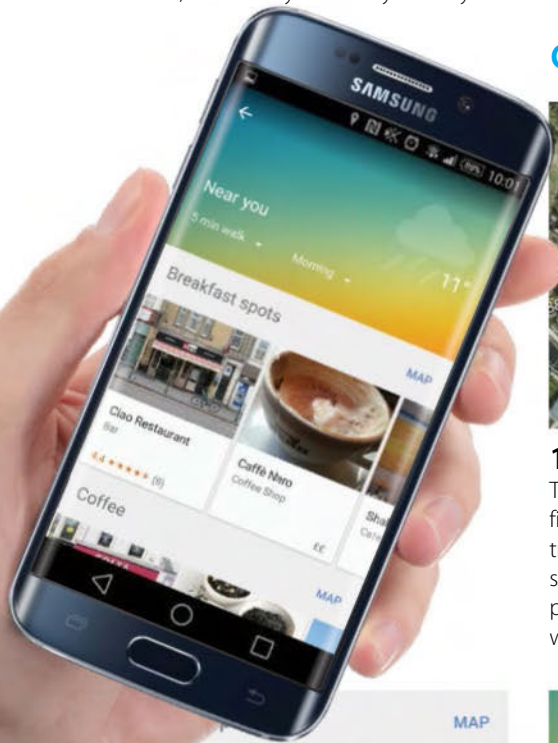
## Explore recommended places in your local area

As well as being the best navigation app available for Samsung Galaxy devices, Google Maps does well at providing users with guides, recommendations and general information about the area around them in a clean and well-designed interface. It's a feature that's been included in Maps for quite some time, but it's only been very recently

that the feature has become one of the premier things to check out within the app. With more links to Google Now, this discovery system is now surprisingly in-depth and can help you obtain the information you need for anything from restaurants to the opening times of a local park or shop you're looking to visit.

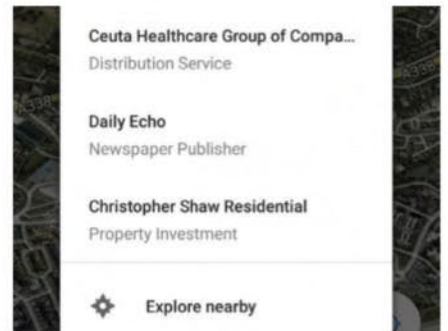
In this tutorial, we'll be looking at how users can initially set up the feature on their Galaxy device and where to find it from the start. Keep reading and we will also point out how you can completely personalise it to your exact needs and preferences, while also showing you the best ways to achieve even better integration with Google Now.

## Google Maps | Find recommended attractions



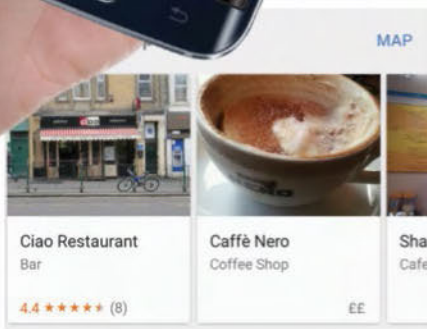
### 1: Track your location

To initiate the recommendation feature, you'll first need to find your current location. Tap the tracking icon at the bottom right of the screen so Maps can find your position. Once located, press the blue circle that marks your location within the centre of the Maps interface.



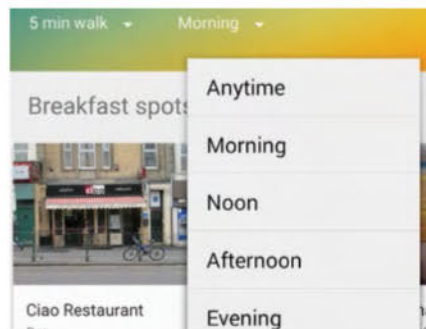
### 2: Where are you?

A menu screen will appear asking to specify your exact location from list of options – ignore this. Instead choose the Explore Nearby option, which will sit next to a compass point icon, located at the bottom of the menu, to begin discovering nearby attractions.



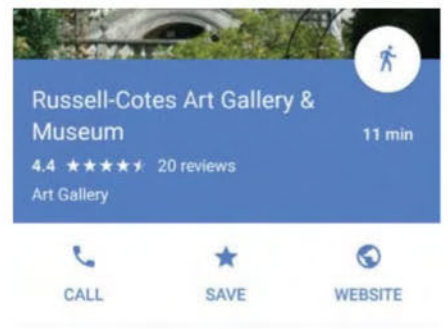
### 3: Explore your area

Depending on if the weather card is activated within Google Now, the first thing you should now see is a weather report for your local area. Scroll down the list and you will initially see recommendations for local businesses, such as coffee shops, pubs and restaurants.



### 4: Filter results

Under the weather report, two drop-downs show a distance and time. You can change these depending on the time of day and distance you want to travel to alter your results. Once revised, you may find that more local attractions appear.



### 5: Get more information

Select any one of the results in the list to take a closer look at that establishment. On each listing you can find general information, such as opening times and contact numbers, as well as a rating based on reviews from other users, and exact directions to the location.

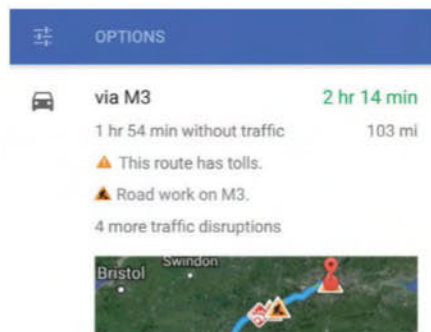


# Set mode of transport

Get directions to walk, drive or ride the rails to your destination

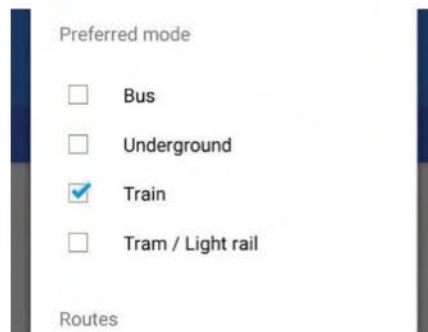
When you're planning a journey within Google Maps, you will be presented with a good selection of ways you can get to your desired location. However, some of them tend to be fairly convoluted, and some could simply take a lot longer than you want to spend travelling. But by taking a closer look at how Maps produces your journey itinerary, it's entirely possible

to curate your very own journey planner and make the necessary changes to get a journey timetable that best suits your travel tastes and needs. Your preferences will then be set for every subsequent journey you plan within the Google Maps app. We will show you just how to find and use this screen within the following tutorial on this page.



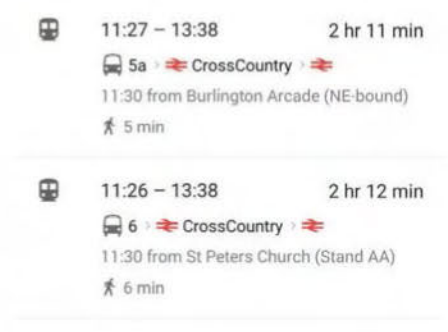
## 1: Load up travel details

When you plan a journey in Maps, you'll be presented with a various modes of transport you can use to complete it. For long journeys, you'll obviously want to scroll to the train or car options, but walking and cycling options are ideal for short city visits.



## 2: Preferred mode

Press the Options button underneath your travel details to open up the Preferred mode screen. Here choose the preferred mode of transport that you require, and select the type of route (such as 'fewer transfers') you want to use to get to your destination.

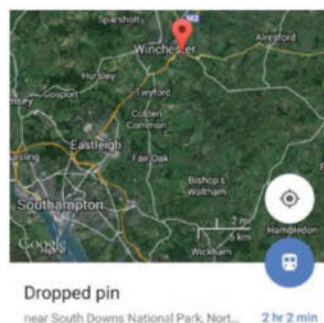


## 3: Check results

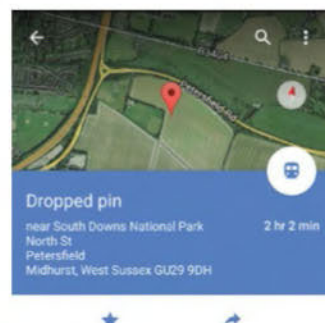
Go back to your travel planner and you should now see refined results for you to use based on your previous selections. By pressing on any one of these options, the new journey will open up within Maps so that you can take a closer look at the directions.

# Save and share your location

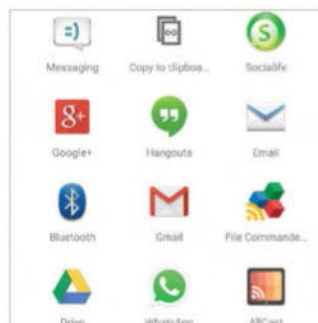
Drop a pin on the map to send that location to a friend



Navigate to a location that you want to send details about to a contact. Long-press on the map until a pin appears and is placed on the specified location. To get an exact location, zoom in on the map for more precise positioning.



With the pin in a desired location, tap on it and an overview screen will appear. This is the screen you'll be able to share with contacts. For the purpose of this tutorial, press on the Share option listed halfway down the page.



Depending on the apps you have on your device, there should be a whole host of different ways you can share the details of the location with a contact. Select your preferred method to start the sharing process.



One of the best things about this method is being able to send the Street View details of a location to someone. This means the recipient can get a direct link to the Street View, rather than having to search for it manually.



# Next-gen web browsing

Take your internet browsing to the next level

Web browsing on your smartphone has certainly come a long way in the past couple of years. This is partly due to having access to powerful devices, but also down to the sheer quality of the browsers now available on the Google Play store. The likes of Chrome and Firefox have set the standard on what to now expect from mobile browsers. They offer a feature-packed experience for to users that doesn't compromise on performance, and best of all they're completely free to use. Mobile browsers are capable of so much more than simply going from one webpage to another.

In this masterclass we'll be taking a look at some expert tricks that users can explore to take their mobile web browsing to the next level. We'll show you two key features in some of the newest browsers available for users in Javelin and Boat, as well as how to browse privately by anonymising your IP address. Also included is a quick guide on adding bookmarks to your homescreen and how you can achieve the elusive lag-free browsing that's surprisingly easier to set up than you may initially think. Here are five top tips to start using in your browsing.

## 1. Cut out animations

One way to speed up browsing is to go into the Developer Options and customise the animations you allow on your device. It'll cut a lot of the artwork that some websites include.

## 2. Stay in sync

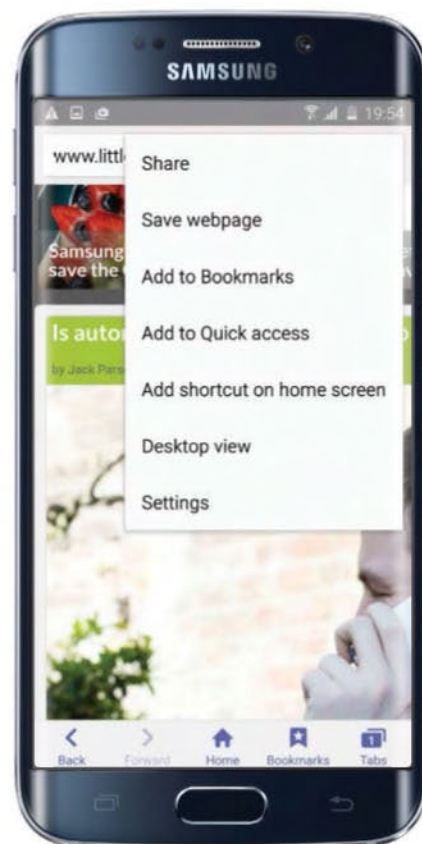
All the main browsers can be synced with their desktop counterpart so you can enjoy a seamless browsing experience. Chrome and Firefox both have this feature enabled.

## 3. Smart Zoom

The embedded images on a web page are highly interactive. Double-tap on them to enable the Smart Zoom feature, or long-press on them to open up different options.

## 4. Open desktop site

There are various browsers that will also boast a companion desktop site, but as an example we're using Chrome. Press on the Menu icon and then select the 'Request desktop site' option. This will reformat the page in order to mimic the desktop one.

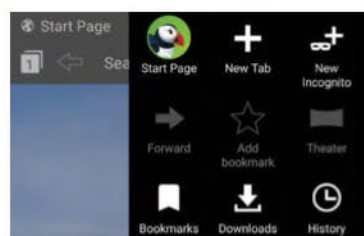


## 5. Night mode

One of the standout and most useful features in Dolphin Browser is the Night Mode. This enables users to lower the overall brightness on their screen, making it easier to read at night as well as make their battery last a little longer.

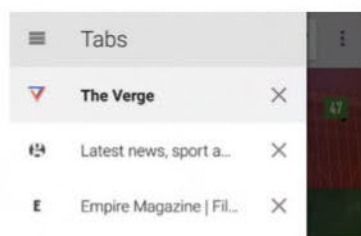
## The best web browsers

## Three browsers that are better than Google Chrome



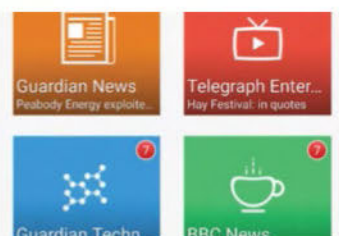
### Puffin Browser

Puffin may look quite complicated, but it's surprisingly easy to use once you get used to it. There's a decent amount of choice for users to customise their browsing experience without having to be overloaded with different options.



### Lightning Browser

As its name suggests, Lightning Browser is really, really quick. Moving between webpages is seamless and the tabbed browsing feature works incredibly well. It's a must-have app for new and seasoned Android users.



### Maxthon Web Browser

After spending time with Maxthon, we like the NewsBites feature that collates the latest headlines from your favourite news blogs. It's a really great way of being able to keep tabs on multiple websites all at the same time.

## How can I view Flash content?

Since Google pulled official support for Flash content, users need a third-party browser to access it. The best one currently on the market is the FlashFox Browser, which is completely free to download.



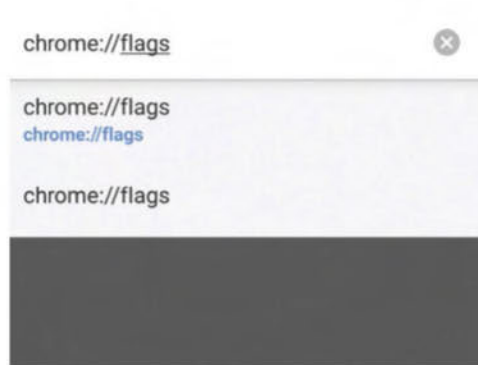
# Achieve lag-free browsing

The perfect browsing experience through a hidden Chrome tweak

No matter the processing power of your Galaxy, it's common to experience lag while browsing. You can try countless browsers to avoid the lag, but thanks to the Chrome Experiments page, there's a hidden trick you can also attempt to solve it.

Google has a number of experimental features that can be tinkered to get a better Chrome experience. The one we use in this tutorial will designate more RAM to browsing the web, ultimately helping achieve a lag-free experience.

## Google Chrome | Improve your browsing speed



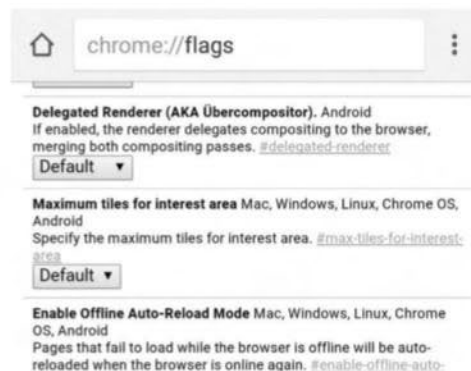
### 1: Open URL bar

Open up the Chrome browser on your Galaxy device and type `chrome://flags` into the URL bar. This will take you to all of the experimental features that Google has been working on for Chrome. Please note that some of these can be detrimental to your device.



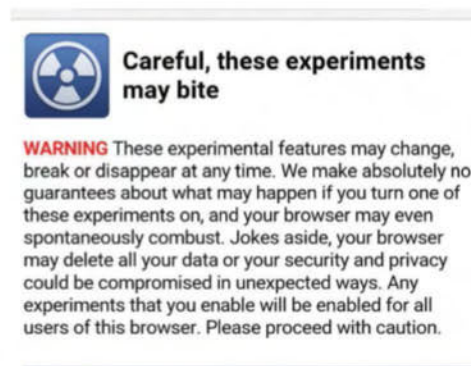
### 3: Choose 512

Now press on the Default drop-down menu and select the 512 option from the list provided. Now scroll to the bottom of the list and you'll see a Relaunch Now option. Tap this option, and you will restart the Chrome browser with the changes in full effect.



### 2: Increase RAM usage

After you've found the list, just scroll down it until you find the 'Maximum tiles for interest area' option. This is where you'll find the easiest way to designate more RAM to the Chrome browser and help eradicate any signs of lag while surfing the web on your device.

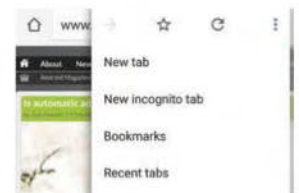


### 4: Take a look

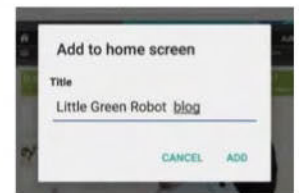
You should now find no noticeable lag when you browse the web on your device. If you're a bit worried about the risks, and you want to revert back to how the browser was previously, go back to the Experimental Features page and select the 'Reset all to default' option.

# Save links to homescreen

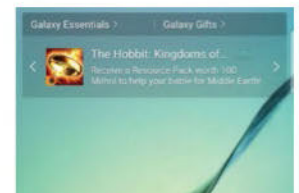
A quick and easy way to keep tabs on all of your favourite sites



Open your Chrome browser on your Galaxy device and go to the website of choice before pressing the menu icon and then selecting the 'Add to home screen' option from the list provided.



A new menu will then appear and prompt you to add a title to the shortcut you want to create. Once this is complete, just press on the Add button and your brand new shortcut will be created.



After you're done, you'll see an icon will be added to your central home screen for you to resize and move to where you need it. Just press on it to be taken to the website's home page.



# Explore Reading Mode in Javelin

Make reading large passages of text easier with Javelin's useful Reading Mode feature

One of the biggest issues people face when browsing the web is dealing with large passages of text. Many websites don't format themselves to work on mobile devices, so users are left with a large amount of text that's hard to read. One of the newest browsers on the market is Javelin, and its Reading Mode is a great solution to this.

Through the new Reading Mode feature in Javelin, users can turn web pages that include large amounts of text into a manageable book style. In terms of design, it looks very similar to the Kindle reading app and includes lots of the same customisation features as well, but perhaps not as in-depth as some may expect.

In this tutorial we'll be fully exploring the Reading Mode feature in Javelin Browser. We'll show you how to enable it from within the browser, as well as take you through some of the available formatting options to tweak it to your preferences. In addition to this, we'll reveal how you can share web links through it to various contacts.

## Javelin | Use Reading Mode



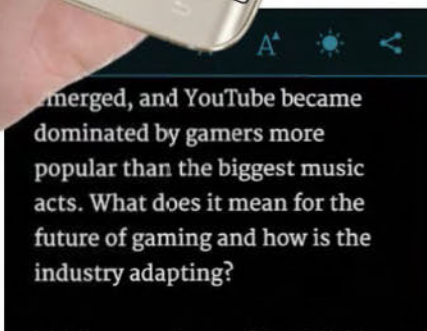
### 1: Find and enable

Open up a webpage that has long passages of text, but which isn't correctly formatted for mobile use. Press the eye icon on the right side of the toolbar to enable the Reading Mode. It'll take a few seconds for the browser to work through formatting the text.



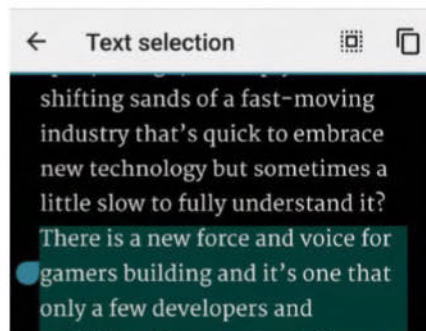
### 2: Take a look

Scroll through the newly formatted page to make sure that all the text is correctly placed and all of the images are present. Although it differs from page to page, text tends to appear quite large, so use the A +/- toggles at the top of the app in order to make it smaller.



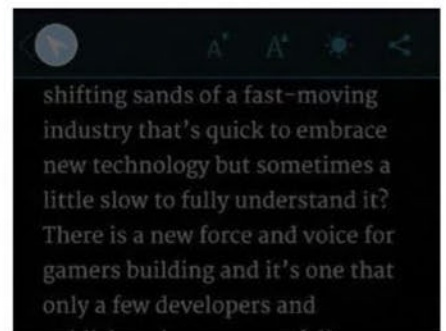
### 3: Change the backdrop

If you find that you're having trouble reading the text, or just want a change of style, then press on the sun icon to change the background to black and the text to white. This layout tends to make it generally easier to read text, but can clash with images.



### 4: Interaction

In a similar way to the Kindle app, users of this feature can interact with the text in different ways. Highlight passages by double-tapping on them, or copy them to the clipboard with a long-press. Save embedded images by long-pressing on them as well.



### 5: Share the link

After you've finished reading all of the text, press the share icon on the toolbar. This will reveal a whole host of different options available for you to send the web link of the page you're on, so choose whichever one happens to work best for you before sending.



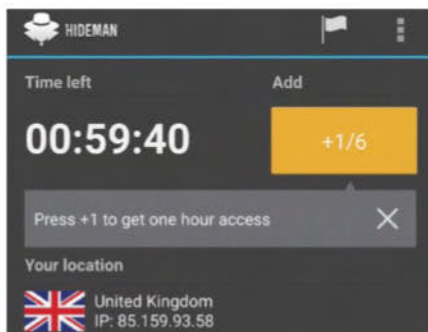
# Anonymise your IP address

Browse the web in complete privacy by using Hideman VPN

No matter what browser or device you use to search the web, your data is never completely safe from being compromised. If you're worried about how your data is being sent, or simply that your device is being tracked, then you could look at anonymising your IP address. Through the Hideman VPN app, you can connect to a remote IP that the

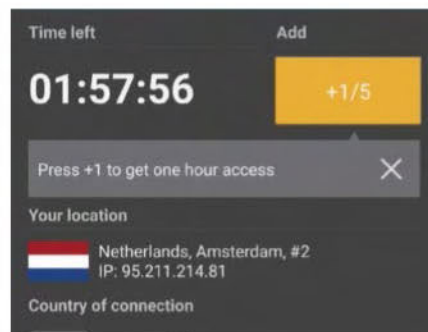
app provides, which enables you to not only browse the internet safely, but also in complete privacy.

The app provides users with several hours of free private web browsing, with it costing just a small amount of money to get unlimited access – a small price to pay for anonymity on the internet. Here's how to get started.



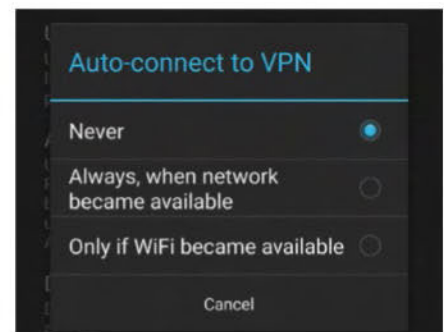
## 1: Connect to remote IP

Start by opening up the Hideman VPN app and press on the Connect button at the bottom of the device. The app will now scan for your own IP address to determine your location as well as a remote IP for you to connect to.



## 2: Check connection

It can take a few minutes for the connection to be established, but once it's done you will see a notification appear alerting you of it. This notification will provide you with more details of where in the world your temporary IP is based.

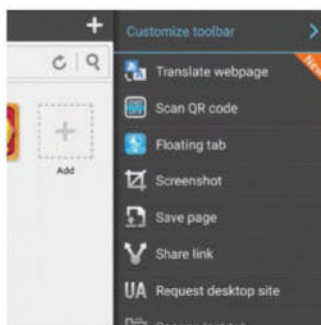


## 3: Auto-connect option

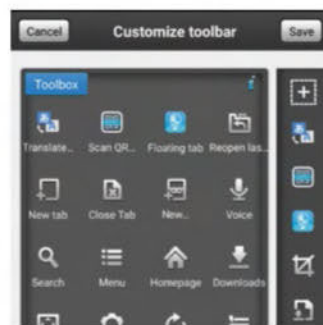
If you don't want to manually connect to a VPN before browsing the web, just go to the app's Settings menu and then enable the Auto-connect to VPN option. This little option will help save you a whole lot of time in the long run.

# Create a browsing toolbar

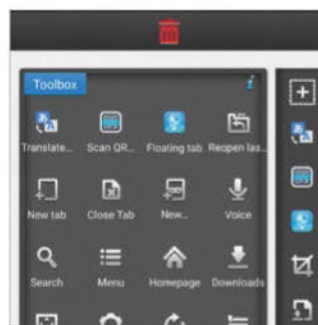
Choose the features you want instant access to by creating a custom toolbar in Boat Browser



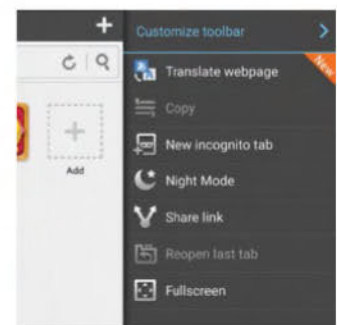
Open Boat Browser and select the arrow in the bottom-right of the app. This will open up a side menu titled Customize Toolbar. Here you can switch and change the icons you want to have access to on your side toolbar.



Most of the features already placed on the toolbar are fairly pointless when using Boat. If you want to focus in on making the browsing experience easier, then add things like the New and Close tab options.



You'll notice that some of the icons have a blue shine to them; this means that they link in with other apps on your device. Similarly as before, some of them are fairly pointless, but one or two could be worthwhile additions.



Once you've finished sorting out the layout, press the Back button on your device. A swipe to the right on your screen should now show your alternate toolbar in a list format, as well as options to make further edits to it.



# Do more with your email

Upgrade your inbox with these top tips and essential apps

We live in a world where users can always be connected to their emails, no matter the device, or the location. There are new email clients appearing all the time, apps available for smartphones and with Gmail, you can now use certain features without online access, and it's easier to sync emails across devices.

The way we send emails is so fast and easy that the corresponding apps have had to improve to keep up, with relative success. We look at some of the best email apps available for Galaxy users and show you some of the features that will improve how you use your email. Here are our top five to get started.

## 1. Manual sync

Annoyed at how many emails you're notified about? You can set up a manual sync option for your account, where you'll only see new emails when you go into the account directly.

## 2. Block spam

The likes of K-9 are fantastic choices when it

comes to managing spam and phishing emails. Using this app, you can block specific emails and services sending you problematic emails.

## 3. Increase security

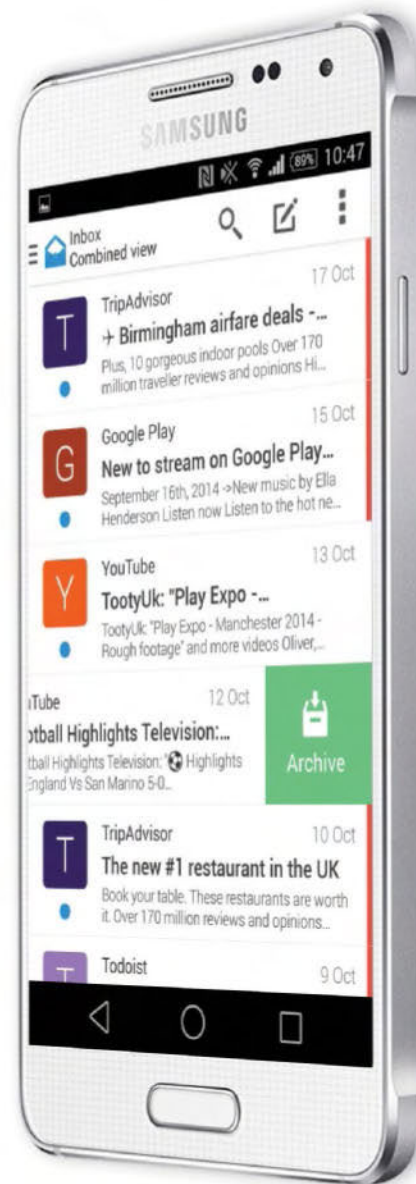
To provide some extra security for your email accounts, make sure to add some sort of password system to them to help stop people accessing them. We recommend the CloudMagic app, which has a great passcode system for its users to explore.

## 4. Better Outlook

If you use an older email client, namely the Outlook 2003 system, you may have issues finding a decent Android app to access your account. It's a good idea to update your client.

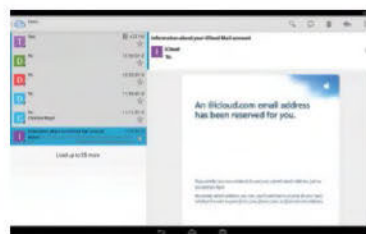
## 5. Custom server

Not happy with the available clients? No problem. You can create your own email server from scratch and apply the settings to match your criteria, but the process is quite difficult.



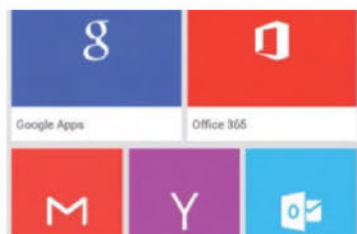
## Best alternative to Gmail

These email apps are the best on Google Play



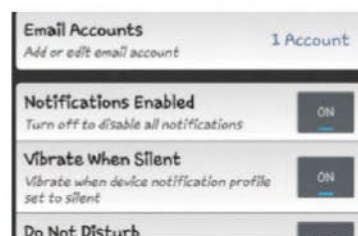
### Support for iCloud

For those moving over from iOS to Android, use the Sync for iCloud Mail app to move your existing emails to a new Android email account. It's a quick process to complete and can save manually having to do it.



### Account integration

If you're looking for an app that provides a great system for managing your accounts in one place, then CloudMagic is a superb choice. It caters for Yahoo, Exchange and Office 365 accounts among others.



### Use with Android Wear

There aren't many choices for those wanting to get their emails on their Android Wear smartwatch, but the best so far is the WearMail app. It's easy to set up and great for getting a glance of your inbox on your wrist.

## Why won't my account sync?

The most common reason why an account won't sync is a change in password or security details. Log on to the desktop version of your account and check if any details have been changed.



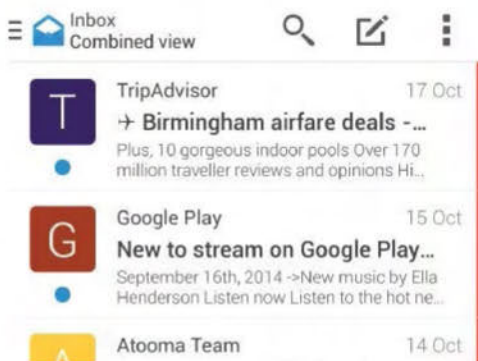
# Merge accounts in one inbox

Collate Gmail, Outlook and Yahoo! accounts with Boxer

If you have one email address for your personal life and another for work, it be difficult juggling them both. With Boxer, bringing all your accounts into one place is possible. The app provides a platform where users are able to manage individual

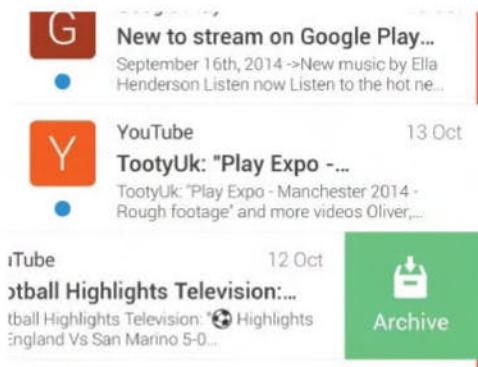
accounts from within one app, or instead merge them together into a collective inbox. This inbox can be customised to suit how you like to interact with emails. There's no limit to how many accounts you can merge, so follow this tutorial to get started.

## Boxer | Merge email accounts



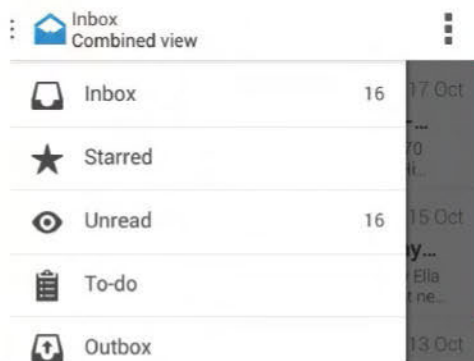
### 1: Add your accounts

After launching the Boxer app, you'll be prompted to add an existing email account. Once the syncing process has finished, you can then add any number of subsequent accounts by upgrading to the Boxer Premium app. Press on the Confirm button once you've added all accounts.



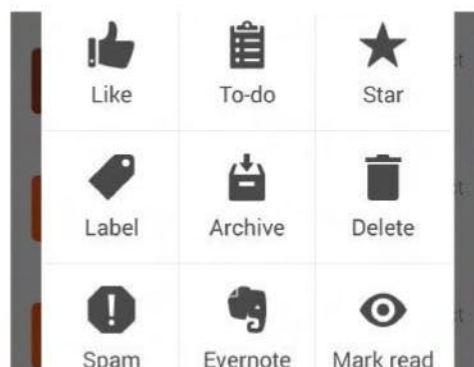
### 3: Use gesture controls

Boxer includes a couple of gestures that can be used to quickly move emails to different parts of your account. By swiping left you can archive the email and by swiping right you can move it to your recycle bin. Both of these folders are available through the app's side menu.



### 2: Move between accounts

Open the side menu of the Boxer app and you should instantly see the various accounts listed. By default, your inbox will be a feed of all your different accounts, but by pressing on one of the listings, only the emails associated with that account will now be shown.

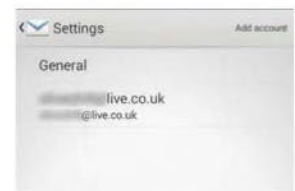


### 4: Archive and other options

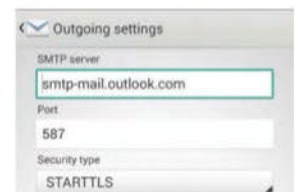
By long-pressing on any email in Boxer, you'll open up a new menu with several actions. Users can choose to move the email to a different folder or email account, which is really handy for keeping specific emails together. It's also possible to send email to the cloud through this menu.

## Customise settings

Advanced users can change server details of accounts without fuss



Go to the individual account settings page in your chosen email client and then look for both the incoming and outgoing settings pages that will be listed within the menu before you.



For this step, go to the individual account settings page in your chosen email client and look for both the incoming and outgoing settings pages that you will see listed within this menu.



Now go ahead and edit the server name, as well as assigning an alternate port number if you have one. Choosing the correct type of security is also important for your account.



# Master email attachments

Print, save and use email attachments effectively

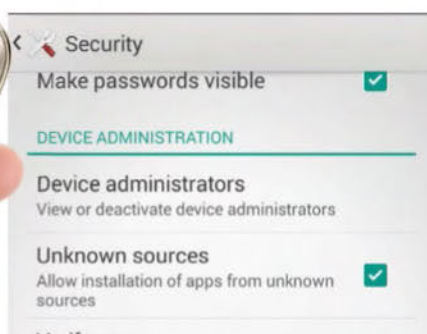
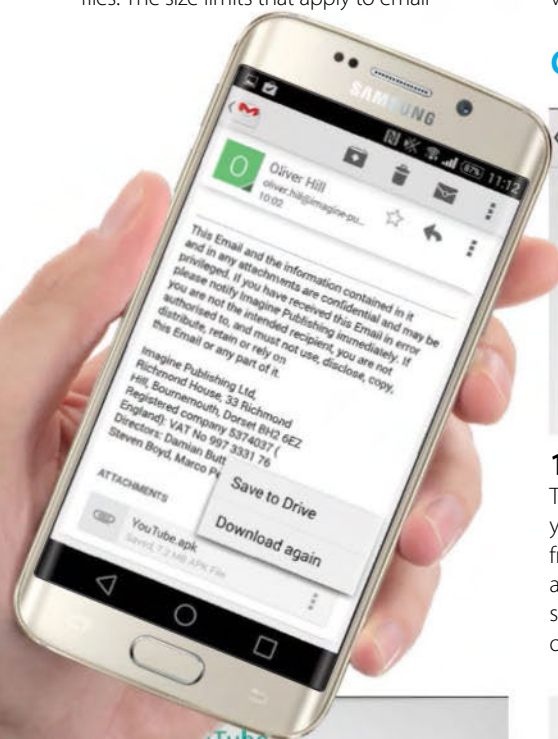
One of the benefits of all email clients readily available to Galaxy users is that they offer an easy way to send small attachable files between email accounts. Although most people send documents as email attachments, it's entirely possible to send short media clips, or even more complex files. The size limits that apply to email

attachments vary and purely depend on the email client you're using. Smaller ones tend to allow only for small files to be sent, while the likes of Gmail and Outlook cater for bigger files to be sent as attachments.

The ways in which users can now interact with any email attachments sent to them has vastly changed in the past year. As well as

being able to simply open them, many email clients now allow attachments to be saved directly to the cloud or, in the case of Gmail, enable compatible attachments to be directly printed from the email. In this tutorial, we will show you the best things that you can do with any email attachments sent to you on your Galaxy device.

## Gmail | Add an attachment



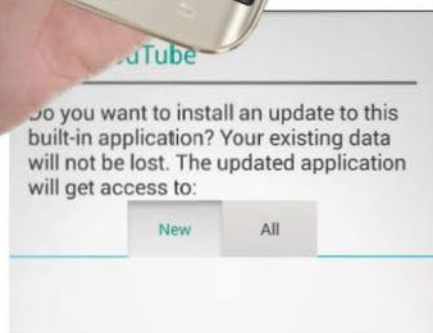
### 1: Allow unknown sources

To cater for email attachments, it's imperative you enable the Unknown Sources option from the Security menu. This lets users have access to install certain files and apps that are sent via email attachments, but make sure you only open files from reputable sources.



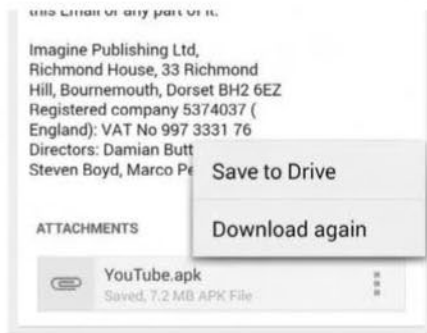
### 2: Finding attachments

Open up an email of your choice and scroll to the bottom to find the attachment. As well as listing the size of the attachment, you'll also find what kind of file it is. In the example shown, we've emailed across an APK file that can be installed onto the device.



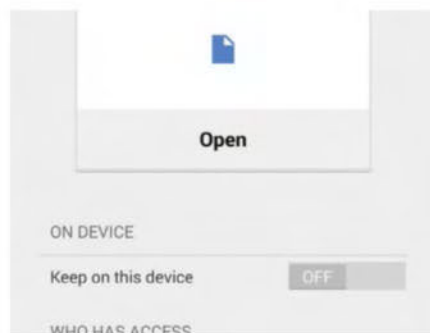
### 3: Open and install

By simply pressing on the attachment, the file will look to open or install itself on to your device. Depending on the file, a new menu will appear with installation instructions to follow. At this point, you can also perform a virus scan of the file to make sure it's clean.



### 4: Move to the cloud

Navigate back to the email and instead press on the menu icon (three dots) to the right side of the attachment. Here you'll find the option to save the file to Google Drive, or another cloud service depending on the email client you're using. Click on the option to continue.



### 5: Managing in the cloud

Open up the corresponding cloud account and find the recently moved attachment. From the account, users can now download the file onto their device, read more about the origin of the attachment, or simply redistribute between various accounts.



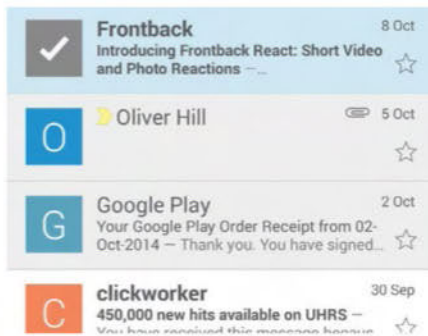
# How to label emails

Make a cluttered inbox more manageable with labels

One of the things that many of Android's biggest email clients don't have is a category system, with which users can quickly move different emails into specified folders. It is, however, a feature that Google has looked to implement using a label system within Gmail.

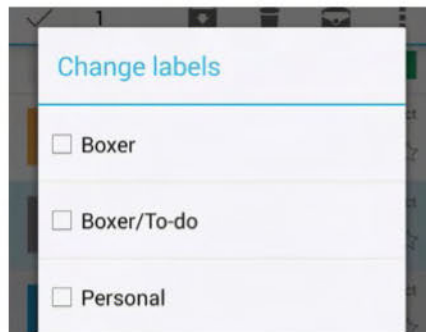
Through the app on any Galaxy device, users are able to create a series of labels for

their emails, which can hold an unlimited number of emails within that are all related to a similar topic. When a new email arrives, it can then be quickly moved out of the main inbox into one of the user-created label folders. It's a quick and easy solution for maintaining a clean inbox. In this following tutorial, we'll show you just how to achieve it.



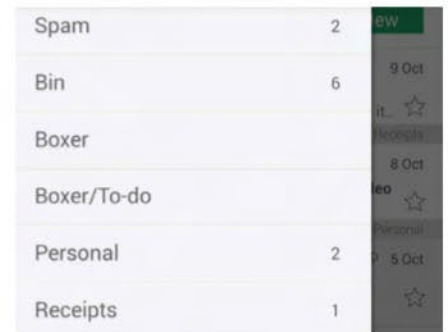
## 1: Select emails

Go through your Gmail inbox and long-press on the emails that you wish to group together into a newly created folder. With the emails selected, go to the menu icon and press on the Labels option provided near the bottom of the list.



## 2: Create and choose

You'll find a plethora of pre-existing labels to choose from, but there's also the option to create a new one. After selecting or creating a new label, the highlighted emails will now move to the designated folder. It can take a few minutes to move them all.

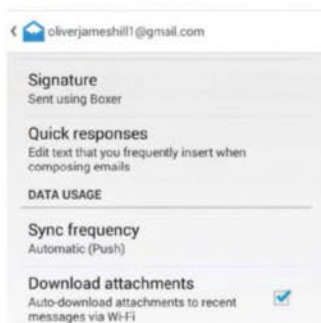


## 3: Open label folder

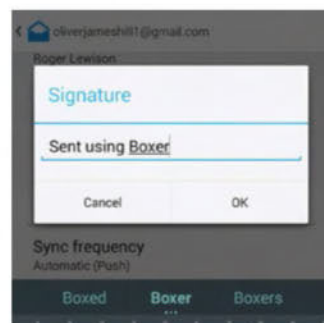
Go back to your email inbox and each email should now have a little label symbol on the bottom right of it. To access a label folder, go to Gmail's side menu and scroll down the list to the label section and select the appropriate label.

# Create and customise signatures

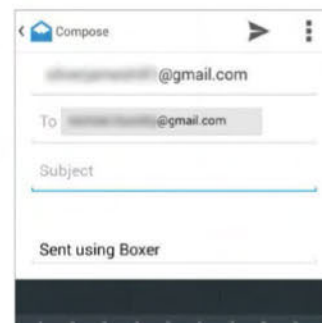
End your emails with a personalised email sign off



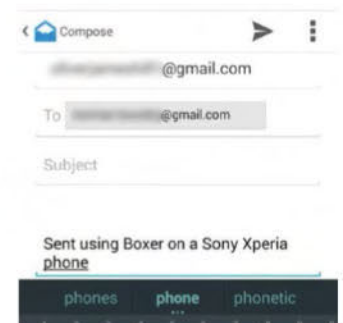
Go to the settings in your email app to find the signature option, usually at the top of the settings screen. An email signature will be added to the bottom of any email you send and can be a great way of personalising messages.



A signature can consist of anything, but most people simply put their name and details in it. Though there are no criteria for how long a signature can be, making it too long can be a real eyesore those receiving it.



Press OK when you've added your signature and start writing a new email. At the bottom you should now see your new signature. If not, go back to the account settings menu and make sure you saved the signature.



If you want to personalise a signature to a specific contact, you can edit the current signature while typing out an email to them. Once sent, the email signature reverts back to the original set up at the beginning.



# Master Microsoft Office

Create, edit and share with the cloud using Microsoft Office

The Microsoft Office Mobile app has been a long time coming, but it's finally here and best of all, it's completely free. The app itself encapsulates all the Office programs into one app, without the need for extra downloads. You'll find both Word and Excel in their entirety, with a basic version of PowerPoint also included in the package.

In this masterclass we explore the best features of the MS Office app. First we'll look at the options available to those wanting to create documents and spreadsheets in Word and Excel. Also included is a guide to PowerPoint and some of its features, while we also show you how to connect the app to other Microsoft programs. You'll also find a guide to Microsoft's OneDrive, which is also included within the app. To start, here are our top five Office tips.

**1.** To give yourself a headstart with a document, check out the various premade templates.

**2.** You may find the app can be fairly inconsistent with connecting to its online

servers, and you may find it occasionally logs you out of the app without you realising. Just be patient with it as it's a problem Microsoft is aware of. It's early stages for the app.

**3.** Before adding comments to documents that have been sent to you, make sure you add a name to your comments through the Settings menu. Otherwise they'll be shown as anonymous, and while these can be edited after, it's better to make it clear to start with.

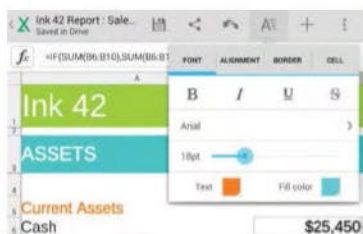
**4.** If your spreadsheet is a little longer than you originally planned, why not add extra pages to it to split it up. With the sheet opened, press on the file tab at the top to input details of a new page. You can then go through this menu to switch between them.

**5.** There's a big emphasis on sharing your documents in this application and by saving them to the cloud, it's easy for users to then open them up in any of the other Office suite apps to edit further.



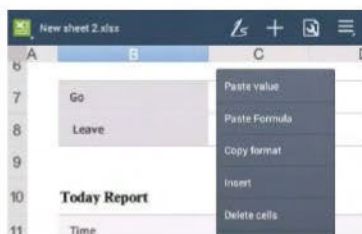
## Office alternatives

If Microsoft's suite isn't for you, check these rival offerings



### Quickoffice

Google's very own office suite is perfect for those who want advanced features. It comes with access to spreadsheets, documents and PowerPoint files, while also enabling users to save and open files from Google Drive.



### Polaris Office

Where Polaris trumps its competitors is with the ease of creating documents from scratch. It transfers documents between both desktop and mobile version, too, so you can edit your documents no matter where you are.



### Docs To Go

Among the plethora of creating and editing tools in Docs To Go are some sharing options users should check out. Docs To Go connects with a wide range of different cloud storage accounts to make managing files easy.

**Why does text not format correctly when I import documents in Office?**

The best solution is in the app's settings. Select the 'Keep original formatting' option which reverts it to the original layout.



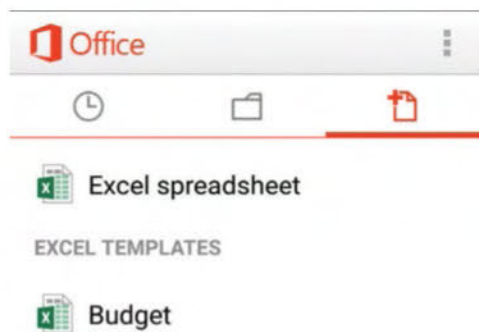
# Create and format documents

Start from scratch and create your own Word document

Creating a Word document is usually the first thing users try in the MS Office app. The process is fairly easy and Microsoft has done a good job at making sure the feature includes a variety of formatting options to help make your documents

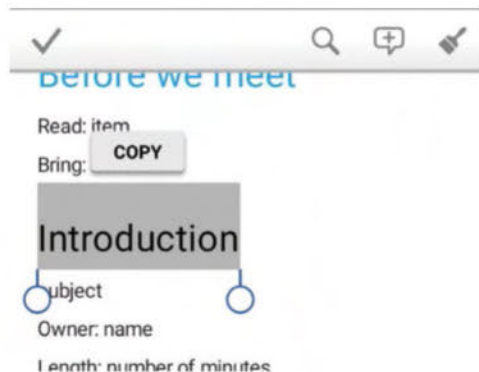
stand out, while also making it easy for beginners to put together simple documents. In this tutorial, we'll be exploring all the basic features of putting together a document, as well as taking a look at some of the formatting options available to users.

## Microsoft Word | Create a Word document



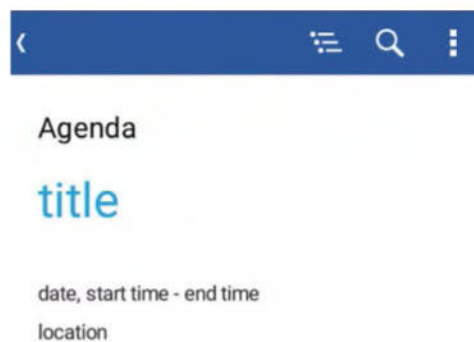
### 1: Choose blank document

Log in to the Microsoft Office app on your Galaxy and press on the far right tab on your screen. Here you will be given the choice of a blank Word document or, if you scroll down the page, the choices of templates, including an Agenda, Outline and a Report.



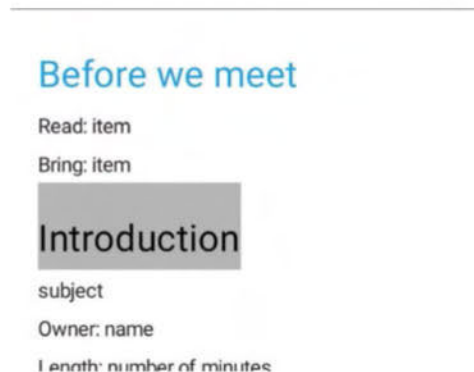
### 3: Copy, paste, comment

By long pressing on any word in your Word document, users can copy it to their clipboard. After highlighting a word or sentence, you can also add a comment by selecting the bubble icon at the top of the app. Other users can then read them if they'd like.



### 2: Type it out

Enter the text that you want to save in the document, following the template provided if this is the option you have chosen. To make this easier you can use your Samsung Galaxy's built-in autocorrect feature to save you don't have to type out so many words.



### 4: Start formatting

After you're finished, you can take some time to work through the formatting options available to you in the app. Highlight a passage of text you want to format and select the brush icon. Here you can apply colours, change font size and explore even more options.

# PowerPoint documents

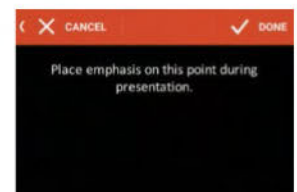
Despite not being able to edit, you can view and add notes to imports



Open up the presentation on your Galaxy through the document screen. Once it loads, you can press on the tiled tab at the top of the app to view the presentation from start to finish.



By long pressing on a specific slide in your presentation, users can then go to the overview screen of the presentation. This is ideal if you want to view a particular slide in more detail.



You can tap below the slide to add notes to it. If you choose to then save the changes and export it to other contacts, these notes will then be shared for them to view.



# Put together a spreadsheet in Excel

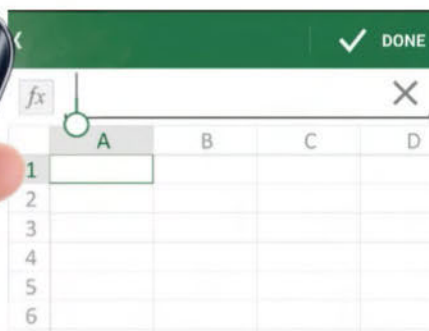
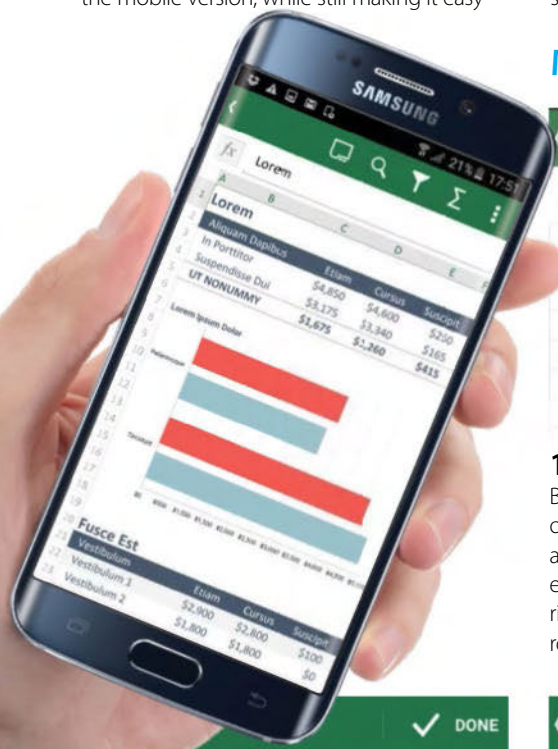
Use equations, charts and more within the Excel feature of the MS Office app

Excel has been a staple of the Office brand for some time, but with the amount of features the desktop version contains, you could be forgiven for thinking that the mobile version may not be as comprehensive. Thankfully, Microsoft has incorporated many of its best features into the mobile version, while still making it easy

enough for new users to get to grips with and create simple spreadsheets. As well as still being a great solution for simple data entry, this version of Excel still contains all the complex formula and equation features that more advanced users will want to look at. Dig a little deeper and users will be able to find some great customisation features to help

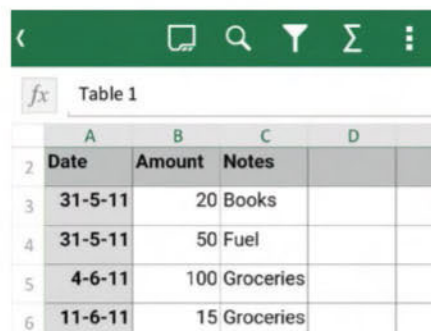
personalise their created spreadsheets, and even leave comments on them for others to read when they access the spreadsheet themselves. In this tutorial we'll be guiding you through the basics of the Excel app for your Galaxy, while also exploring some of these more advanced features, including creating and formatting charts.

## Microsoft Excel | Create your first spreadsheet



### 1: Start from scratch

Begin by selecting the blank spreadsheet option from the homescreen of the Excel app. Once the spreadsheet loads up, begin by entering the Settings page located in the top-right and customise how many columns and rows you need.



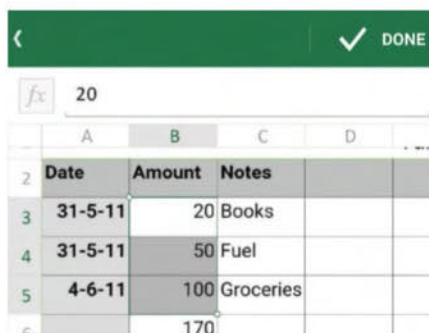
### 2: Finding attachments

Now start adding all the data in. Make sure to use your keyboard shortcuts to quickly get around the spreadsheet. If you need to add a new row in between some data, just long press on the numbers on the left side of the sheet to create a row.



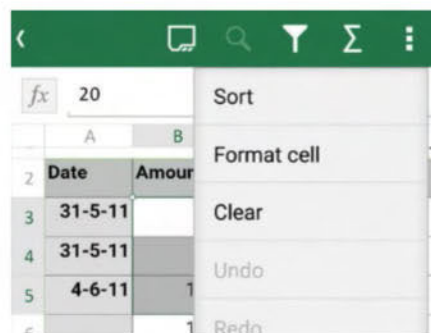
### 3: Input equations

Take your Excel usage further by using the equation feature. By highlighting a cell, you can select the FX button at the top of the sheet and input a formula into the space provided. Press enter for the result to be added to the cell.



### 4: Create a chart

With enough data entered, the next step is to create a chart and input it into your spreadsheet. Highlight a number of cells before long pressing on them and choosing the generate chart option. The chart will be entered at the top.



### 5: Explore additional options

Through the menu icon, you'll find many additional options to mess about with. At the top of the menu you'll see the Sort option, which enables users to filter through their data, and the Clear option that deletes multiple cells.



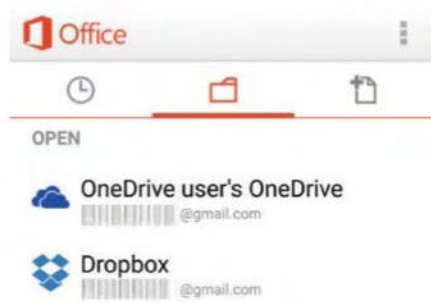
# Connect with other accounts

Link the Microsoft Office app with your desktop Office account and others

There's plenty of options in the MS Office Mobile app that make it great for creating and editing your documents and spreadsheets, but on its own it can be fairly limited when importing and exporting them to other accounts when you need to distribute them.

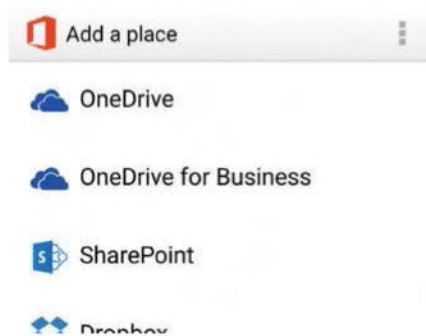
Luckily, through the app, users can link the MS Office App with a series of other

Microsoft programs to get a more fluid sharing system in place. As well as adding additional OneDrive accounts to the app, users can also choose to link the app to any Office 365 and SharePoint accounts they have. In this tutorial we'll be taking you through the basics of linking one of these programs to the MS Office app on your Galaxy.



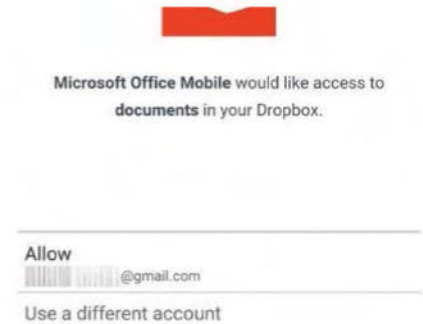
## 1: Correct tab

From the homescreen, select the folder tab in the centre of the app. Here you'll be able to see all the external programs you're connected to. To start with, you should find your OneDrive account listed, but select the Add a place option to continue.



## 2: Choose a program

The next screen shows you the four programs that you can choose to link with. Connect to OneDrive, OneDrive for Business and SharePoint with a Microsoft account, or connect to Dropbox if you have an account set up with alternative cloud store.

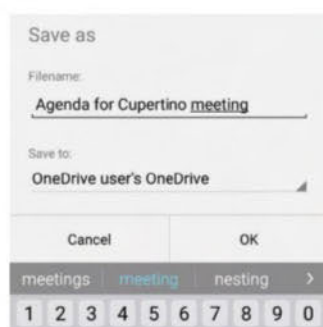


## 3: Connect

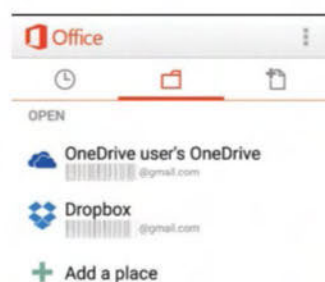
Each log-in process is slightly different depending on which program you choose to connect with. For instance, we already had Dropbox set up on our Samsung Galaxy, so it was as simple as granting permission to Microsoft Office Mobile.

# Manage documents in OneDrive

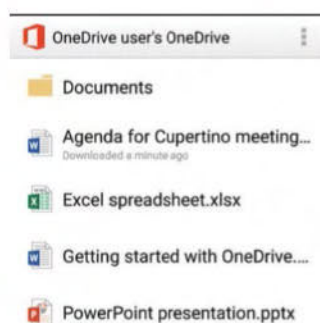
Save your phone's internal storage by taking your documents to the cloud with OneDrive



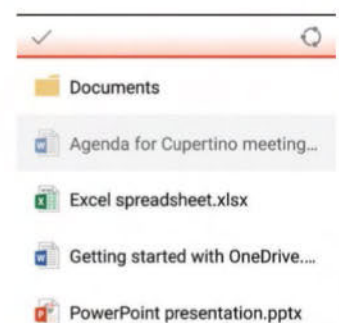
After creating a document, go to the Save As option to be taken to the screen above. By default, the app will save the document to your phone's internal storage, but by pressing the small arrow you can select the OneDrive option.



Go to the homescreen and to the folder tab in the middle. Here it'll list the OneDrive account associated with your Office app account. If it's your first time accessing your OneDrive account, it'll take a little while to load.



Your OneDrive account may look a bit empty, but by pressing on the Documents folder, you'll find a drop-down list of all the documents stored. It's also where you can access a document from your desktop Office account.



With the documents in front of you, users have several options. By long pressing on a document, you can delete it from your OneDrive account, relocate it to your Galaxy's storage, or share it with through Bluetooth or the cloud.



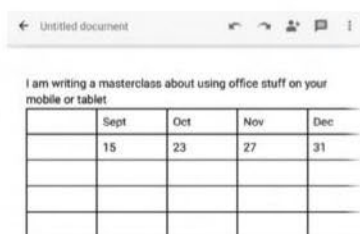
# Work on the go

## Essential apps to run your office anywhere

In today's connected world it's becoming easier to access the office, without actually being in the office. Smartphones are powerful enough to perform a range of tasks, such as putting together presentations and holding teleconferences – so the device in your hand could be your ticket to a job without the commute. There are a range of programs for writing documents, creating spreadsheets and producing presentations – Microsoft Office recently launched its free suite of Word, Excel and PowerPoint on the Google Play store. There are plenty more ways to provide yourself with an office on the go, however. In this masterclass we will show you how to record interviews or important phone calls using the Cogi app as well as demonstrate how to create PDFs with CamScanner. If you really need your office to be based at home, then we take you through document sharing. We'll also explain how to access your work computer from anywhere with Chrome Remote Desktop. We've also got a tutorial on how to set reminders based on your location, so you don't miss a meeting. Your smartphone or tablet could be the key that unlocks you from your desk and we will show you how to use it.

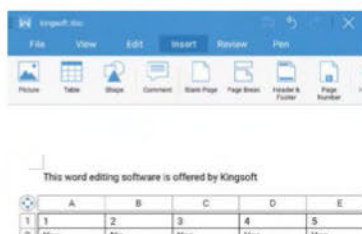
**“Your Galaxy could be the key that unlocks you from your desk and we'll show you how”**

## Portable word processors | Documents on the go



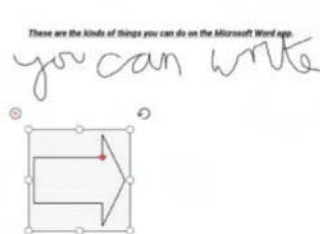
### Microsoft Word

Microsoft Word is the first program you think of for writing text and reports. Well optimised for Android tablets with an easy access ribbon for editing. Office 365 subscription is needed for full use.



### WPS Office Free

The word program in this suite is basic but easy to use. Its main benefit is the accessible share button and the fact that it can encrypt your sensitive document to keep it safe from potential hackers.



### Office Suite 8

This app has a great word program that you can use straight away and it provides easy access to lots of formatting tools. It also enables you to import PDFs into a document, which could prove useful.

## 5 tips for keeping work files safe

### 1. Protect your work

The first rule of Work Club is...always back up. While your workplace will have safeguard after safeguard, a crashed phone might lose you all of your work. Ensure that you've backed up your documents to the cloud, Google Drive or your SD card.

### 2. Watch your data use

Keep on top of your data. Sending attachments over email, communicating via Skype and downloading documents all cut through your data allowance. Be sure to turn on your Wi-Fi or set up an alert system for when you are close to your allowance.

### 3. Steer clear of large files

Be aware of file sizes. PDFs, videos and picture-heavy documents can all be hefty sizes. Try and upload documents to shared drives or the cloud because emails usually have file limits and a big file could clog up both systems.

### 4. Don't overload

Don't take on too much. Although your device probably has a sizeable storage capacity, you could quickly use up your memory once you start working. When you've finished with something, save it somewhere else and delete it to keep your device working smoothly.

### 5. Take care

Be careful when sending sensitive documents via Wi-Fi, especially if it's a public connection like a café. Data can easily be stolen so if you have to use public Wi-Fi, use encryption software to keep your files secret from hackers.

## Won't this cost a lot?

Most office programs are free to download, but you'd have to pay to unlock the full range of features. Some use a subscription system, others ask a one-time fee. If you want basic word documents and spreadsheets everything can be free.



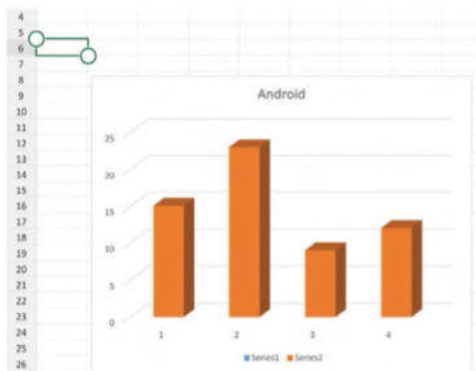
# Share, edit Excel documents

Make sure the spreadsheet you're sending isn't read-only

Few things are as frustrating in the office as a read-only document. Needing to make a change but being unable to is very annoying, especially if the person on the other end isn't in. Therefore, it's useful to know how to send documents that can

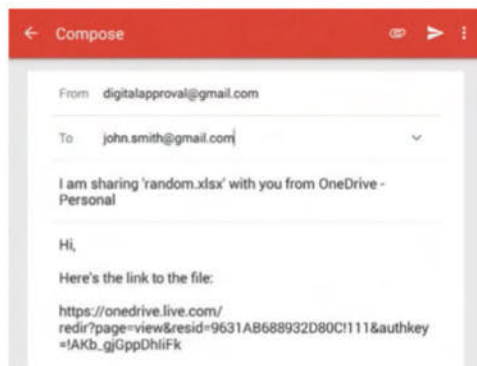
be edited. The Microsoft Excel for Android program can do this, meaning that you don't need to be in the office to get your spreadsheets seen, and you can also ensure that your work can't be tampered with by sending it read-only.

## Microsoft Excel | Share editable Excel documents



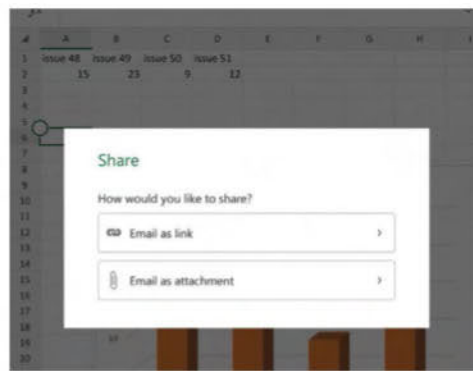
### 1: Create your spreadsheet

Load Excel, click new spreadsheet and create the document to send. Once finished, save it by pressing the disc in the top-right corner and name it to make it identifiable to the recipient. If you're sending an existing spreadsheet, just click on it in the home page.



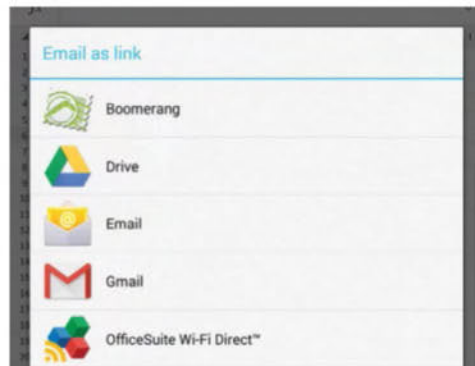
### 3: Choose your option

If you choose to send your spreadsheet across as a link, a second option will pop up asking if you want to send it as a view only file or as a copy that can be edited. Select your chosen option. If you want to send it as an attachment, select that option instead.



### 2: Share the spreadsheet

In the top right-hand corner, click on the small person with a plus sign in front of them. The pop up box will give you the option to email the document as a link or spreadsheet. The link option will open the document up in their One Drive file while the attachment will open it in Excel.

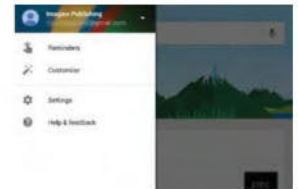


### 4: Send the email

Either of the three options will bring up a range of delivery options. The simplest is usually Gmail, but One Drive will be the best one to sync up with the Microsoft Office program. If you are in close proximity, you could also send it straight to someone else's device via Bluetooth.

# Set location reminders

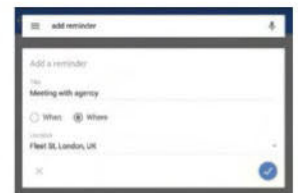
Trigger your memory based on a place, rather than a time



To start off, open up Google and press the three horizontal lines in the top left-hand corner of your device's screen. This will open up the menu. Find Reminders in the list and tap it.



The program will automatically set a reminder for your Samsung Galaxy device to go off at a particular time. Press the button next to Where to open up the location option.



Tap the downward arrow on the right. This gives you the option of Home, Work or typing in a place yourself. Press the tick when you're done and then your reminder is set.



# Save documents as PDFs in a snap

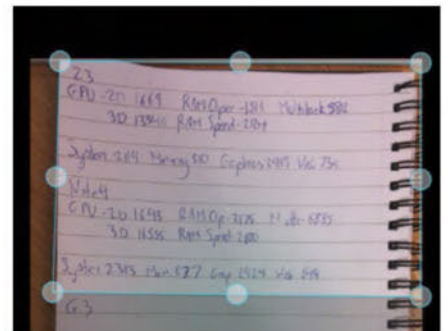
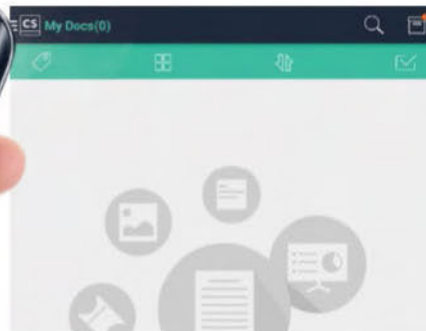
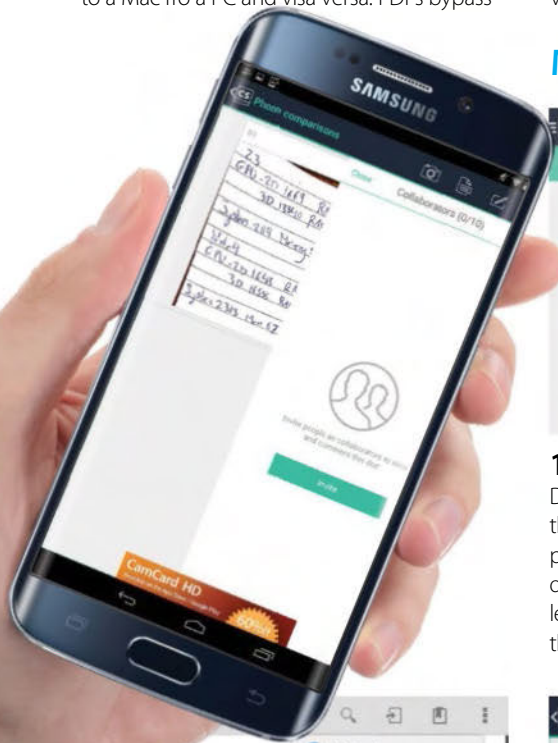
## Make and receive PDFs with the CamScanner app

PDFs are important in a world where there are multiple programs for writing documents. Transferring documents from one device to another could incur readability problems if one device uses one Word program and another uses a non-compatible one. Everyone has tried to send a document to a Mac from a PC and visa versa. PDFs bypass

this problem by making documents readable on any device that has the free Adobe software installed. CamScanner is an excellent app that can take photos and transform them into PDFs as well as turning word documents into PDFs too, giving you the option to crop, rotate, resize and send your documents in a variety of ways.

By making your Samsung Galaxy phone or tablet into a scanner, using its advanced camera, you can work from home and still keep your colleagues informed. We'll show you how to do all of the above, as well as sharing PDFs with your contacts and importing existing photos in your gallery to convert to PDF.

### Microsoft Word | Save as PDF

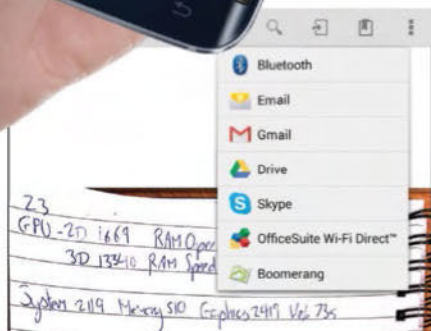


#### 1: Get started

Download the CamScanner app from the Google Play store and add the InNote plugin as well so you can add notes to your documents. Press the three lines in the top left-hand corner, go to Settings and then sync the app with your One Drive account.

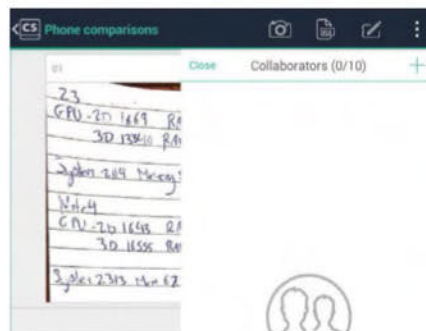
#### 2: Take a picture

Press the camera icon in the bottom-centre of the screen. After taking your photo, CamScanner will give you the option to crop your picture which you can do by sliding the circles up and down and rotating the image to your liking. Press the tick when done.



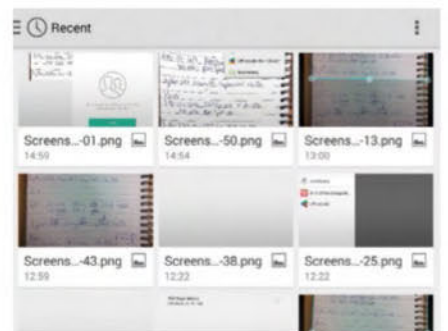
#### 3: Share the document

Press the PDF icon and the top of the screen should show an option to share. This will enable you to send the document via a range of methods, including Gmail and One Drive. Selecting one of these options compresses the file down to a manageable size.



#### 4: Add collaborators

Press the three dots in the top-right corner and choose Add Friends, which will bring up a side screen. Press Invite to enable others to view and comment on the document. The menu in the top-left shows you the documents that you have received.



#### 5: Import your pictures

You can easily select images and files to import. Press the three dots once again and choose 'Import from Gallery'. This will bring up all of your existing pictures and files. Select the file you want to view, convert and share from your list and it will then appear in the app.



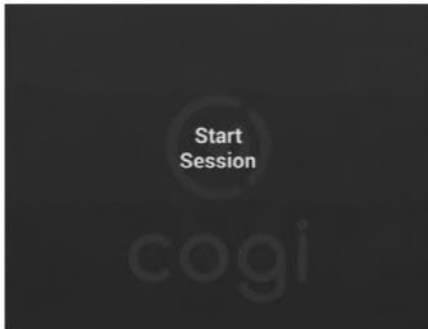
# Take meeting minutes

Forget shorthand! Record meetings in detail with Cogi - Notes & Voice Recorder

Dictaphones have long been the staple of anyone wanting to record audio.

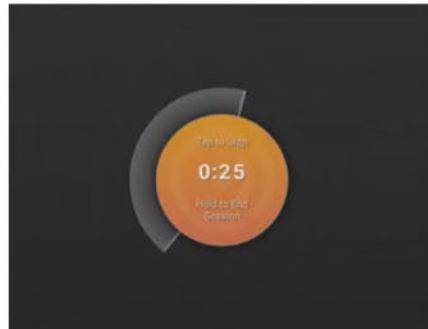
However, using one with a phone could get awkward and loss of sound could be a problem. Then phones started including voice recorders on their devices but they were fairly limited. There are now a range of apps that can record directly onto your phone and perform a number of extra

tasks to help you with recording and transcribing interviews. This would be of great benefit to people whose job includes interviewing or if you are simply receiving instructions from your boss that you don't have time to write down. This tutorial will show you how to record audio with Cogi, write notes during an interview and ensure that you never miss a crucial piece of info.



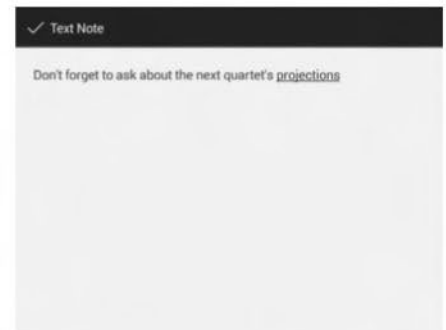
## 1: Set up a call

Download the Cogi app from the Google Play store. Open it so it's ready to start as soon as you start your phone conversation. Make your call and nip back to the Cogi home screen. The session is already being listened to but not recorded.



## 2: Start to record

As soon as you hear something worth recording, tap the button. It automatically rewinds 5 to 20 seconds to capture what caught your attention. Tapping again stops the recording but not the session, so tap once more to restart.

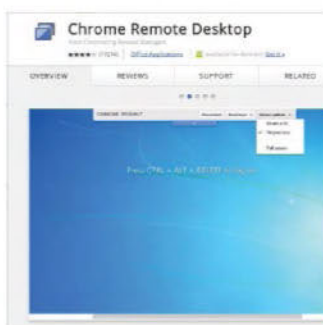


## 3: Extras

In the bottom-left is an icon that lets you take notes during the recording, the middle icon enables photos to be taken, while the bottom-right icon lets you tag people. After recording, add photos or notes and share via a range of options.

# Remotely access your computer

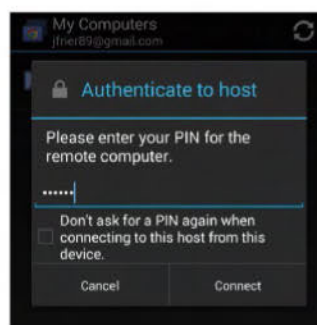
Use Google Chrome Desktop to bring your work computer to you



To get started, launch Chrome, go to [bit.ly/1JR2xpD](https://bit.ly/1JR2xpD) and search for Remote Desktop. Accept all of the installation permissions and authorise the program to see remote desktop computers. Then choose My Computer.



To get started, launch Chrome, go to [bit.ly/1JR2xpD](https://bit.ly/1JR2xpD) and search for Remote Desktop. Accept all of the installation permissions and authorise the program to see remote desktop computers. Then choose My Computer.



To get started, launch Chrome, go to [bit.ly/1JR2xpD](https://bit.ly/1JR2xpD) and search for Remote Desktop. Accept all of the installation permissions and authorise the program to see remote desktop computers. Then choose My Computer.



Now you're able to navigate around your desktop using your phone's touch screen. The menu in the top right-hand corner accesses Ctrl+Alt+Del as well as fullscreen mode. Fully close down the app to break the connection.



# Replace your laptop

A set of apps, tweaks and workarounds that let you replace your laptop with your phone

Smartphones and tablets mean that, essentially, we carry a powerful mini computer around with us all day. That can make returning to your desktop feel like a cumbersome, unintuitive experience. But fear not, because turning your Android device into a brilliant desktop replacement is within the reach of all Galaxy users. It makes switching from pocket computing to sit-down computing that much smoother, and you'll be up and running in no time. In these short tutorials we'll show you how to turn your Galaxy into the sort of machine you're going to be happy plugging in to a monitor to do some work at home. By installing a few apps, changing a few settings, and a bit of creative thinking, you'll soon have an Android-powered desktop experience that will have you chucking your current desktop in the bin. Well, maybe not, but you'll definitely be using it less. These tutorials are going to show you how to make that space much smaller. Here are five laptop-replacement tips:

## 1. USB mouse

If you don't want a Bluetooth mouse, or you

don't have one, you can buy a powered USB cable for a couple of quid that will let you plug USB peripherals into your Android device and use them straight away.

## 2. Connect to PC

A lot of Android devices have screen mirroring technology, meaning you can bring up your Android desktop on any PC that's connected to the same network, essentially turning your phone or tablet into your PC's operating system.

## 3. Bye bye digital keyboard

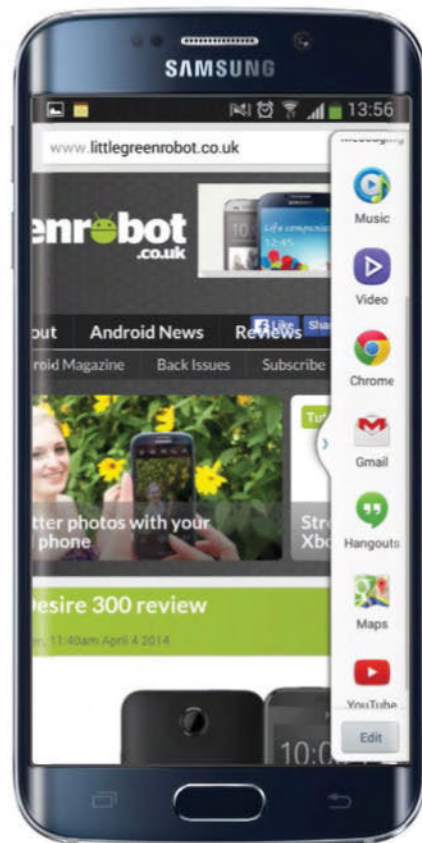
Remember when you're using an external keyboard you can get rid of the digital keyboard that pops up every time you go to a text box either by tapping back or hitting the button on the software keyboard that minimises it.

## 4. Android keyboard

Don't forget you can also turn your Android device into a keyboard, mouse and general remote control for your PC. It's helpful if you want to get your phone more involved, but aren't ready to abandon your desktop just yet.

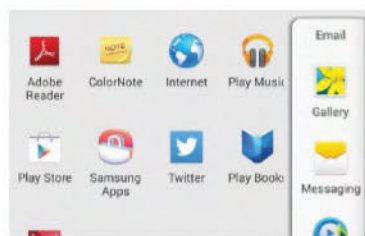
## 5. Sync internet connections

The remote connections in these tutorials need you to be on the same internet connection as the host computer. For a Windows-ified phone on the go, you'll need to root your device.



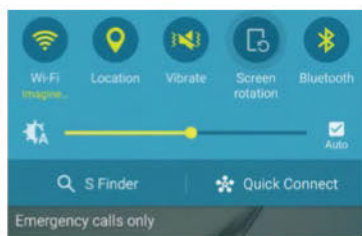
## Some extra tips

## Simple tricks to make sure you don't need your laptop



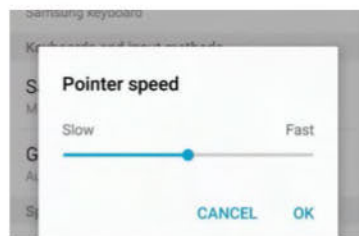
### Customise multitasking

Tapping on the Edit button at the bottom of the windowed multitasking drawer, you can add different apps. It's worth checking out which ones you can use, and making sure the ones you need are within easy reach.



### Lock your rotation

Pretty simple one this, but if you're going to be using your Android device as a laptop replacement on the go, it's best to lock the screen rotation into a landscape perspective, otherwise bumps or moves might flip it.



### Mouse pointer speed

If you do decide to use your Galaxy device as a mouse pad, it's worth having a look in the Language and input menu in Settings to slow down or speed up the speed of the pointer depending on your preference.

## Are there Galaxy devices able to replace a laptop?

Your best bet in that department would be the Galaxy Pro tablet, although it's still limited. You can add a keyboard to make it easier to replace your normal laptop at home.



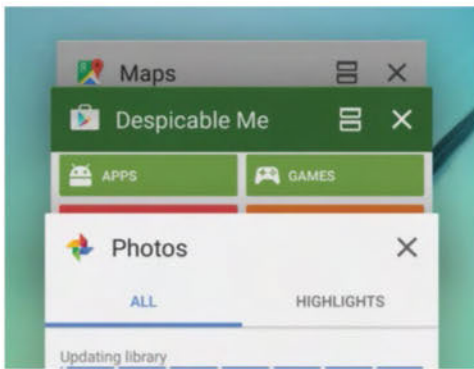
# Use windowed multitasking

Get multiple apps running onscreen at the same time

One thing you want to get set up to replace your desktop is **windowed multitasking**. This lets you run a couple of apps at the same time on-screen, showing you more info and letting you switch effortlessly between them. Fortunately, this

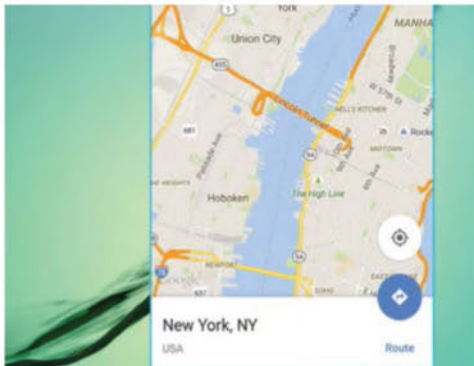
is something newer Galaxy devices, such as the S6 and S Tab 10.5, have built-in. We show you how to set up windowed multitasking on the S6, but if you're using an older model, you can download an app such as Multiscreen Multitasking THD.

## Settings | Set up windowed multitasking on the S6



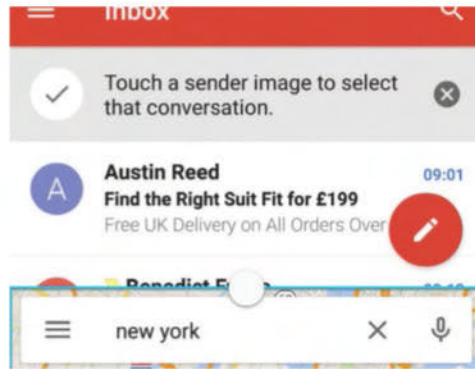
### 1: Open Recent Apps

To start off, you have to open the two apps that you want to use for this tutorial, then press the left-hand button to view all Recent Apps. On each open app, you will see an icon made of two squares on right-hand side. Tap this icon to begin split screen view.



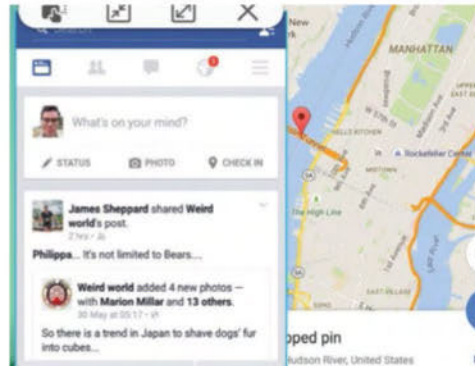
### 3: Enable multi window

As an alternative to split screen view, if you press and hold on any app listed in the Recent Apps menu, the app will appear in a separate window. This window will then sit on top of your home screen or any other app that you choose to open.



### 2: Adjust split screen

Select the second app you want to view in split screen and then both of the apps will fill the screen. By default, they get half each, but if you press and hold the white dot in the centre of the screen, you can adjust the amount of space each app gets.

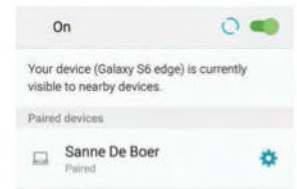


### 4: Adjust window size

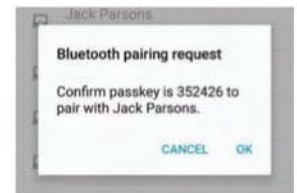
You can fill your screen with as many app windows as you like, however it can quickly become overcrowded. You can rearrange windows around by pressing and holding on the white dots or, if you tap them, you can adjust the windows size or close them for good.

## Pair external devices

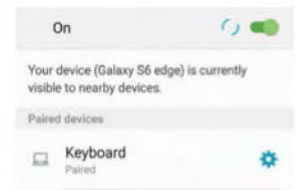
Quickly pair a Bluetooth mouse and keyboard with your Galaxy



Turn on Bluetooth on your Samsung Galaxy device. You can do this from the notifications bar or from the Network menu in settings. Make sure your device is set to visible.



If the Bluetooth is turned on on your chosen keyboard or mouse they should just show up here automatically. Tap on one of them to pair it up with your Samsung Galaxy phone or tablet.



On your first pairing you will need to input a code to ensure that you are in fact pairing safely, but that's it. Your keyboard and mouse should now work on your Galaxy device.



# Get Windows running on your Android

Using Microsoft Remote Desktop you can remotely connect your Galaxy to your PC

If you're looking for a familiar computing experience delivered to a smaller package, then this is the best way to go. With this official Microsoft app, which is free to download from the Google Play store by the way, you can get your home Windows experience up and running on your Samsung Galaxy device.

It can be a little fiddly, especially if your PC isn't set up to work as a remote desktop, but there are some excellent tutorials on the MS website that walk you through getting your machine set up to essentially stream its desktop to your phone or tablet.

This is probably the toughest of the tutorials we're walking you through here, and

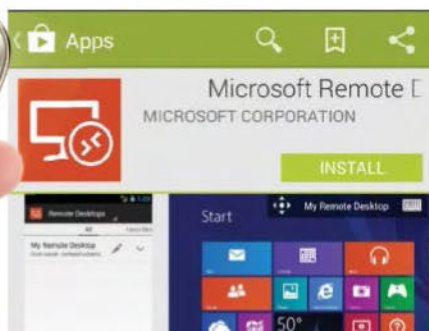
it can be frustrating trying to get your PC and your phone talking to each other properly.

Still, if you persevere you'll end up with a desktop experience on your Android that means the files and folders you manipulate will be replicated on your laptop the next time you go power it up, which isn't half bad at all really.



## Microsoft Remote Desktop

## Get Windows on your Galaxy

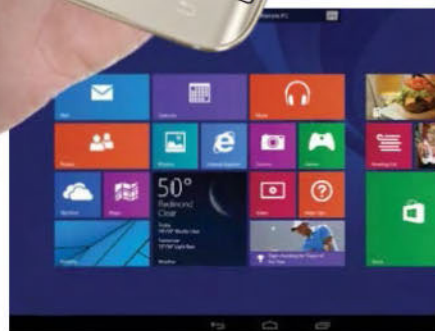


### 1: Install the app

You'll need to grab the app from the Google Play store and get it installed. It doesn't cost you a penny, but it's a good idea to make sure the version of Windows you're running is compatible before you do. The compatible versions of the OS are easily found via a link.

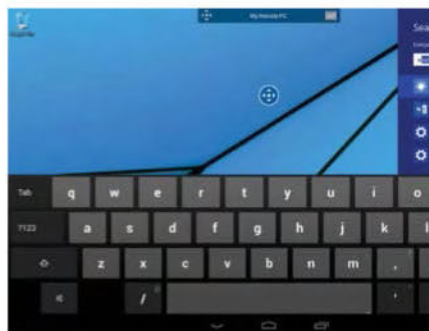
### 2: Insert your details

The computer you're connecting with needs to be on the same wireless network as your phone and you'll need the computer's name, and the username and password for the admin account. If you're unsure what your laptop is called, check in its settings.



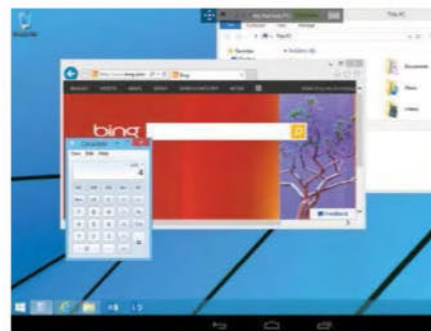
### 3: Get connected

You should be able to connect straight away and you'll see the complete Windows desktop on your Android screen. Remember you'll need to be running a compatible version of Windows. Versions that use Remote Assistance only won't work.



### 4: Get yourself going

Some things are a little different from the regular Windows experience, mainly because you're tapping rather than using a mouse, but everything you can do on your computer you can now do on your Android. Just make sure the computer stays powered while you work.



### 5: Disconnect when done

To pull the plug on the connection, all you need to do is open up the start menu and hit the Sign Out option. This will reset your Android back to a simple Android device, and leave any changes you made to your desktop as well. Pretty good for a free app we think.



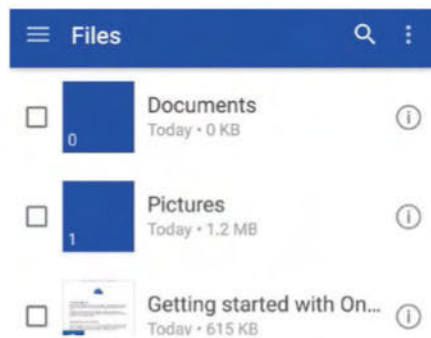
# Sync OneDrive to Google Docs

Connect your Google-powered office app to your Microsoft cloud storage for ease of sharing

It's a good bet you've got a lot of different cloud storage accounts, some of which work better with different devices than others. Microsoft's SkyDrive, or OneDrive as it's called now, tends to gel better with Windows devices, so if you're looking to use your Android phone or tablet as a laptop replacement, and pick up that work on a PC, it's a good idea to share

it through OneDrive. Don't worry though, getting that set up is definitely the easiest of the tutorials here.

All you need for this tutorial is the OneDrive app and the Google Docs app on your Galaxy phone or tablet. Once you've got those installed it's time to start sharing. Trust us, anyone is going to be able to get this up and running.



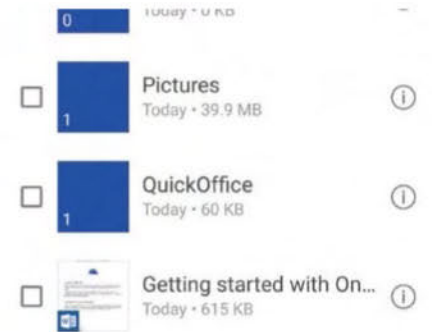
## 1: Open a folder

Go to the OneDrive app and tap on the '+' sign in the top bar to create a new folder. Give it a name like 'Google Docs', so you know that everything in there has come from your Android device. Now go on to open up Google Docs.



## 2: Create your content

Just create your content as you would normally in Google Docs. When you're ready, save it to your memory or to your Google Drive. When it's saved, tap on the three-pointed share button in the bar at the top of the screen.

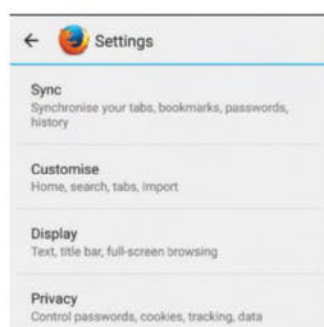


## 3: Share to the sky

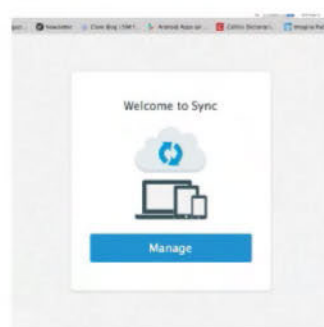
Scroll down the list of destinations and you should see OneDrive. Tap on it, then search through to find your Google Docs folder. Share the file there and you're done. Now your file will be accessible from your SkyDrive wherever you are.

# Use Firefox desktop extensions

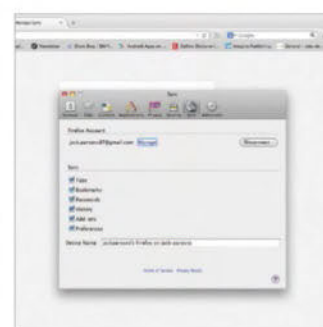
An easy way to get the same Firefox experience on your Android that you're used to on PC



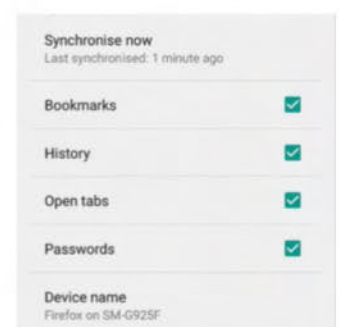
You're going to need to be in front of a PC with your Firefox settings stored on it. Pick up your Android and open the main menu. From there head down to Settings, and then tap on Sync to link the two devices together.



You should get a code. Head to the desktop version of Firefox, go to Tools and then Options. Click on the Sync option and you'll be shown a list of things you can sync, as well as a button that lets you pair a device.



Make sure everything you want to sync to your Android device is checked, then click pair a device and input the code from your phone or your tablet. The sync should start automatically if you've put the code in correctly.



The sync will run on both of the Firefox installations, so all of your add-ons should be available on phone and laptop. Bear in mind that not all add-ons have mobile equivalents, so you might not get a full quote on your phone.



# Expert photo editing

Perfect your pictures with these amazing photography apps

The cameras on our smartphones are consistently getting better. We're seeing more megapixels than ever before and some companies are even including sensors typically found within DSLR cameras into them as well. To cater for this technology, developers have had to make apps that make best use of it. Where before users could only access a handful of tools, they now have access to a plethora of amazing tricks and features to help correct and fix their images. In this masterclass we're looking at some of the more advanced editing skills users can undertake solely using their Android device. We've downloaded five of the best photo-editing apps readily available for download on the Google Play store and put them through their paces to see what they can really do. So no matter if you're having issues with brightness and contrast issues, or need to remove a blurred part of your image, we've got it covered. Here's five great tips to get started.

## 1. Built-in Photos app

A great way to make simple changes to your photos, but it doesn't include many advanced

features worth checking out. If you're new to photo editing, then this is the best place to start.

## 2. Keep a copy of the photo on your device

Sometimes you will find a heavily edited photo will corrupt and therefore the copy will become a valuable asset.

## 3. Combine photo-editing apps

Certain apps are better than others at performing select editing features, but it's up to you to discover the combination that works.

## 4. Keep it simple

Be wary of performing too many edits on an individual photo as it can increase the file size considerably. This is especially important if you plan to export the edited photo to a different app or upload to a website.

## 5. Quality settings

When exporting and uploading photos, make sure that you're always using the highest quality settings. You want to minimise quality loss as much as possible and this is the best way.



## The best camera apps | Partner your editing app with these camera apps



### ProCapture 2

What we like about ProCapture 2 is just how simple it is to capture superb photos of landscapes. Slowly pan your smartphone with this app and you'll find a highly detailed landscape shot waiting for you after it has rendered.



### A Better Camera

There's a multitude of shooting options available in A Better Camera. It works well for those who really want to delve deep into what their camera can really achieve. Definitely one for budding photographers.



### Retrica

If you're a big Instagram user, chances are you like adding a cool retro look to your photos. Retrica adds the retro feel to any images taken through it automatically, all of which can then be instantly uploaded to Instagram.

Are there apps that can both take and edit photos?

There are numerous apps like this, but the one we like the most is PicLab. It has a great suite of editing tools for users to explore and use, and best of all, it's free to download.



# Bring objects to foreground

Focus in on specific areas of an image and blur out other objects

It's pretty common to take photos that have objects you no longer want. Sometimes the removal tool won't do the job and instead you'll need a different solution. Blurring out certain aspects of an image and bringing one part into

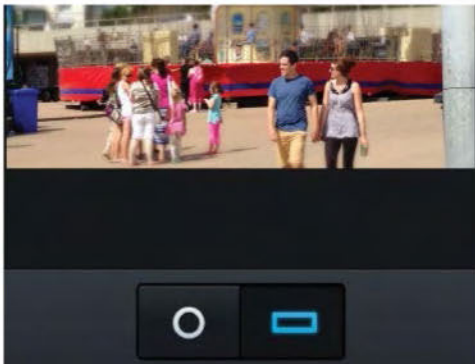
focus is a great way of not only making a striking image, but also to stop the eye being drawn where it's not wanted. In this tutorial we're using the Photo Editor by Aviary app, which has arguably the most detailed suite of tools and features for users to test.

## Photo Editor | Blur out unwanted objects



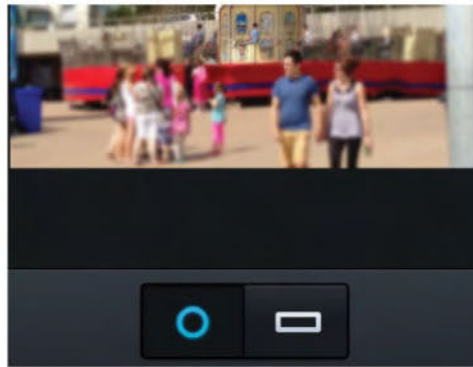
### 1: The right photo

Select a photo that's fairly busy, or simply has objects you don't want to be made too visible. Use the toolbar at the bottom of the app to find the Focus icon near the end of the list. A new editing screen will now appear after a few seconds of loading.



### 3: Bar fade

If you're looking to bring a large amount of the picture to the foreground, then you can consider using the bar fade tool. This will provide you with a great way of fading in and out large portions of the image at once. Combine both fade types for the best results.



### 2: Where to fade?

The standard circle fade is great for pinpointing an exact area you want to bring to the foreground of the image. Use your finger to slide over the object in question. Pinch on the screen to zoom in on a particular part of the image, if necessary.



### 4: Improve colours

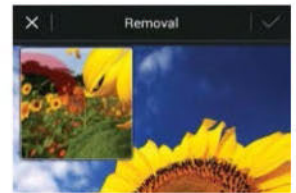
Once you've faded out parts of the image, you'll now want to enhance the colour of the object in the foreground. Go to the Warmth tab within Aviary and use the brush tool to go over the object in the foreground. You can make the image as vivid as you like.

# Remove objects

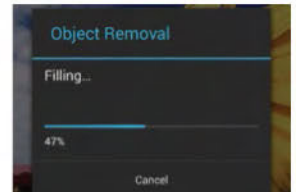
Use Photo Director to easily remove blurred/unwanted parts of an image



For the first step, select the Removal feature from the scrolling list of tools at the bottom of free download Photo Director. A quick guide explaining how to use the feature will now appear.



Use the red line to select the area in your chosen image that you want to remove. Pinch on the screen to zoom in on a section, or alternatively use the pop-up window for a detailed look.



To finish the image, press the Apply button once you're completely satisfied. The app will now get to work to remove your selected area and use other areas of the picture to fill it in.



# Blend two or more images together

Combine images together to create a sleek composition with BlendPic

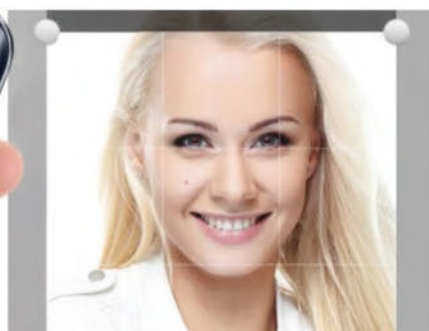
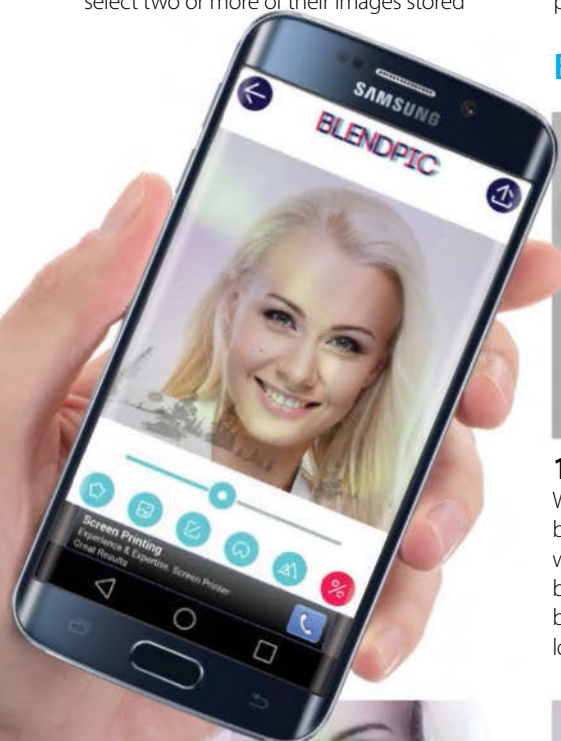
Creating a composition of images is no easy feat on your smartphone. Some apps make the process fairly difficult and even if you manage it, chances are it can still look rubbish. To help simplify the process, the BlendPic app is now on hand for free from Google Play.

It offers a great platform where users can select two or more of their images stored

on their phone and tablet and create a colourful composition from them. Once the composition of images has been created, users can then experiment with the array of different editing tools contained within the app; although not as vast as some apps, there's enough here to keep most budding photographers happy.

In this tutorial, we'll be guiding you through the process of selecting and blending your images together to create a beautiful, layered look. We'll also show you the tools you need to use to make sure that the quality of your images is as good as it can be. We'll make you a photo-blending expert in five straightforward steps.

## BlendPic | Combine two photos



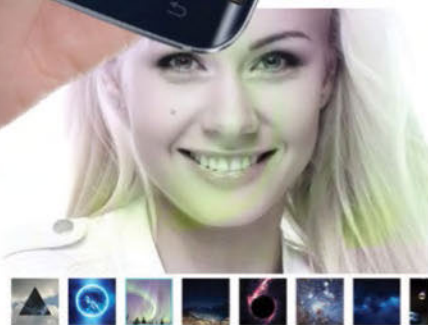
### 1: Make initial selection

When deciding on which image you want to be the focal point of your composition, you'll want to select something with a fairly neutral background – like the example above. Busy backgrounds can often lead to images getting lost in the composition.



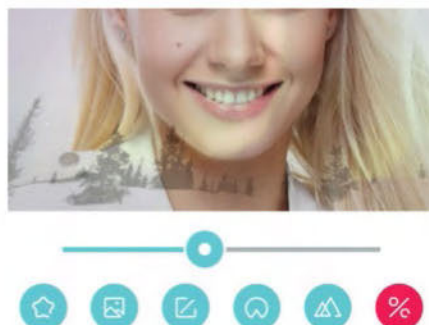
### 2: Secondary images

Press on the Gallery icon at the bottom of the application to select the next image you want to add. As you can see from the above screenshot, some images just simply won't blend well together, so really you'll need to experiment with which images work.



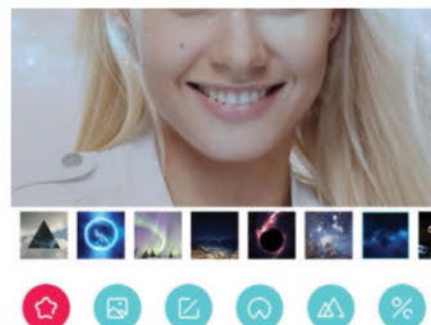
### 3: Choose a preset texture

BlendPic also includes an array of textures you can apply to any images that you're struggling to blend. Press on the star icon at the bottom of the app and select one of the textures from it. In some cases these textures can help make one image easier to blend with another.



### 4: Make some changes

If you've managed to find a suitable composition, go to the percentage icon at the bottom to make some subtle changes. Here you can choose how transparent you want the background image to be, or simply make some alterations to the overall colour levels.



### 5: Fix and finish

Once you're finished with the composition, go to the fix option at the bottom of the app (within the palette icon). The app will now iron out any blemishes, or small problems it finds with the image. Once done, you can now save and export the image.

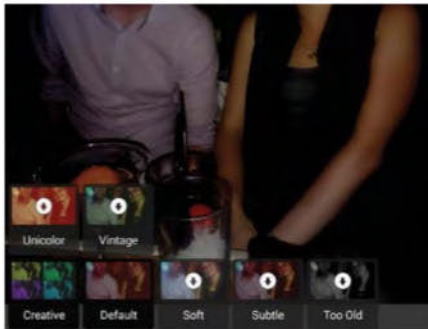


# Fix low lighting in Pixlr Express

Shine a light on your dark and dingy party photos by using this free app

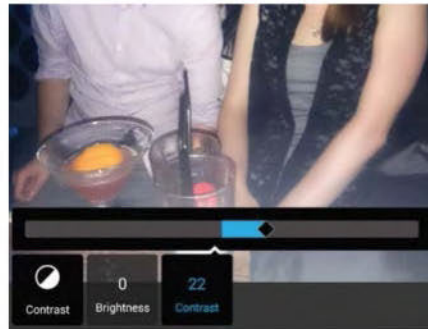
Although we can applaud the crispness and overall quality of images taken on our Galaxy smartphones, one area where it could do with improvement is shooting in low-light conditions. We've all tried taking a picture in a club or during a party – with little success. Many devices include a sub-par flash and require some sophisticated editing to add some colour

to dark pictures. By using a combination of both the contrast, brightness and sharpen features within the Pixlr Express app, users will be able to do a good job at making the photo half decent. It won't completely fix the image and there may be a slight detraction from the overall quality, but you'll find it to be a drastic improvement over the original image.



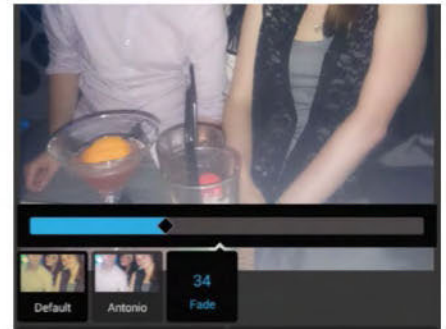
## 1: Sharpen image

Before changing the various levels on the picture, you'll first want to sharpen the image. It's best to go over the entire picture with the Sharpen tool as brightening the image without it can lead to some distortion on certain parts of the photo.



## 2: Work with contrast

Use the toolbar to find the Contrast tool listed under the Adjustment tab. This will be your main tool to use when brightening the image and removing the predominantly dark background. Adjust the slider until the image is at a suitable level.

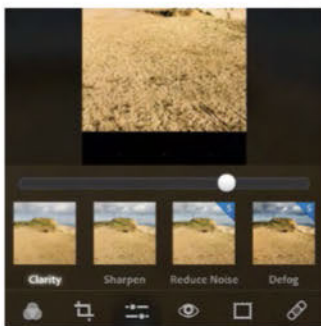


## 3: Managing fade function

You may find that some colours in your image could now be a little brash, so use the Fade tool also within the Adjustment panel to balance them out. It can be quite tricky to get it spot on, but the slider is easy to use and fairly responsive.

# Crop without losing focus

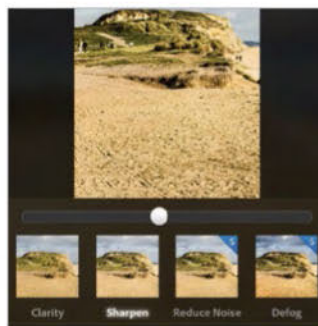
Make sure your shots remain in focus when cropping with Photoshop Express



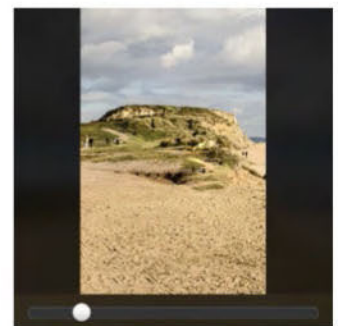
Load up an image in Photoshop Express and use the bar at the bottom to find the cropping icon. Select the regular rectangle crop option from the ones listed and select the section you want to crop off from the image.



Generally, cropping a small part of the image creates a zoomed effect. This for the most part can impact the quality of the image, so be careful with the size of the area you select. Press the Apply button when done.



You'll notice some blurred sections of your newly cropped image, so head to the Sharpen tool. Use this to add definition to the edges of prominent items within the image. In addition, you may also decide to use the Clarity tool as well.



Another tool that you should try for cropped images is Highlights. It can help background images look more detailed. To see the changes you've made against the original, select the rectangle box at the top of the app.



# Reduce your data usage

Unless you have 'all you can eat' data, it pays to cut down

A monthly data allowance measured in megabytes or more once sounded like an impossibly large quota, but it's all too easy to use. 1GB, for example, works out at less than 34MB per day, yet loading an average webpage – not considered data intensive – uses more than a megabyte. What's more, with many contracts, once you exceed that allowance, using additional data doesn't come cheap.

Some ways of reducing your data use are obvious – cut down on downloading music or watching YouTube, for example. However, there are also plenty of less obvious methods. One of our tutorials will show you how to reduce the amount of data your Galaxy uses in the background without your knowledge. Another lets you download YouTube and Google Music data once and for all via Wi-Fi, rather than per singular track or video. Another handy tutorial shows you how to compress data before it's transmitted to you across a network connection.

To start off, here are our top five tips for reducing your data usage:

## 1. Only on Wi-Fi

If possible, try to restrict large downloads such as movies, to when you're connected to Wi-Fi.

## 2. Turn off roaming

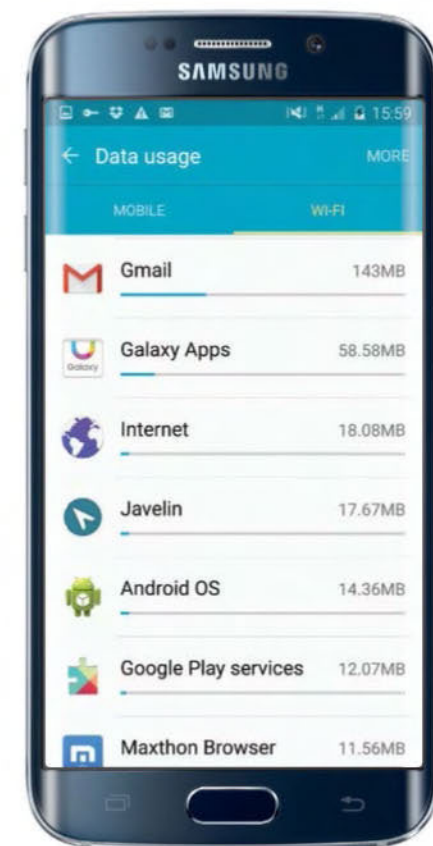
Using data when abroad is usually not included in your monthly allowance. It's a good idea to turn off data roaming and enable it only on those odd occasions when you really need it.

## 3. Go offline

Google Maps now has an offline feature which enables you to store maps on your phone. It's a big hole in your storage but you can navigate a downloaded map without using data.

## 4. Use Opera Mini

If you don't fancy using Onavo Extend (page 52) or don't have Android 4.0 and up, how about using Opera Mini as a browser as it automatically compresses data before transmitting it across to you? It's particularly good if your coverage is patchy in your area.



## 5. Be selective

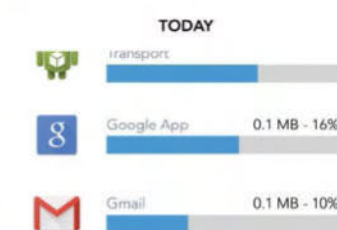
Consider removing apps that use a lot of data but you don't really need. For example, that app that shows the current weather by updating every few minutes might have been a novelty, but it's eating up your data allowance.

## Monitor your data | The third-party app that keeps an eye on data usage



### Install and set up the software

Install My Data Manager – Data Usage from Google Play. Start the app and, on the Mobile tab, tap where it says 'Tap to select plan'. Now enter details of your data plan before tapping on Save.



### View your usage stats

Initially you'll be shown statistics on your daily usage, but more interesting statistics are available by scrolling left and right. You can see graphs of usage against time and see which apps are using up your allowance.

### CUSTOM ALARMS



### Set an alarm to warn you

To sound an alarm when you've reached a threshold (eg 95% of your monthly allocation) tap the menu button, select Plans and Alarms. Set either one or both of the two alarms for your plan period, or a daily alarm.

### The best way to reduce data usage?

Many of the ways of reducing data usage involves using apps less. However, with a bit of forward planning, you can restrict installing apps to when you've got Wi-Fi. As Games average over 40MB, this is a top priority.



# Manage your sync settings

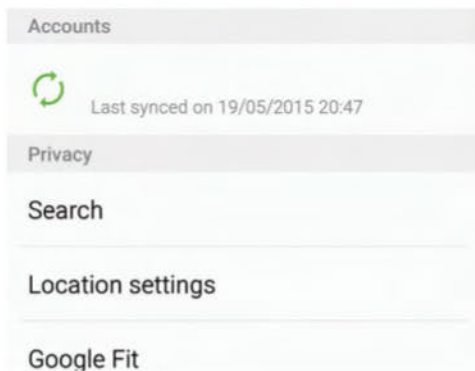
Sync when you want to, not when your phone decides to

Synchronisation ensures your Galaxy devices remain in step with your online data. If you store photos in Picasa, for example, those photos will automatically download to your device. What's more, whenever you make a change online, that

change will be made on your Galaxy. Syncing also applies to email, social media and more.

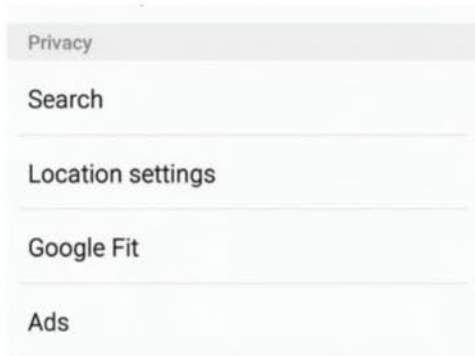
However, this feature uses data. To reduce this, you can turn off synchronisation entirely or choose apps to sync to. You could even sync manually.

## Setting | Alter your synchronisation preferences



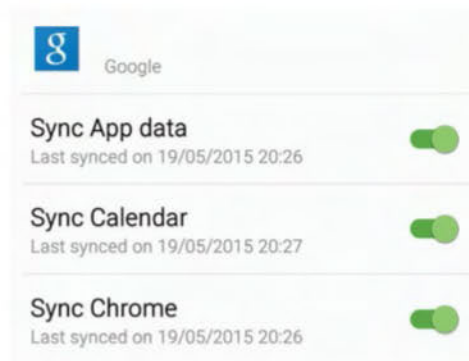
### 1: Is auto-sync on?

Auto-sync involves Android periodically checking if apps are synchronised and, if not, synchronising data. To check if this is turned on, select Accounts and sync settings from the Settings menu. If Auto-sync is unchecked there's nothing more to do (but do check step 4).



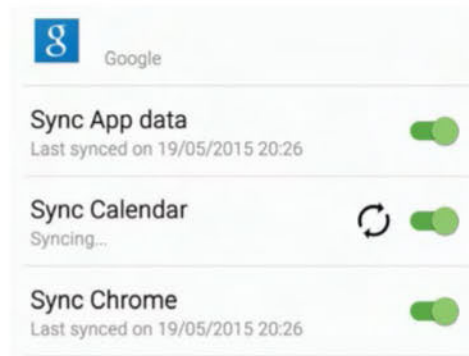
### 3: Turn auto-sync off

A more drastic, but very effective, solution for reducing data use is to prevent everything from synchronising automatically by turning off the global Auto-sync feature. Back at the Accounts and sync option in the Settings menu, make sure Auto-sync is unchecked.



### 2: Select apps

If you decide to keep auto-syncing you can still reduce data use. Tap on your account name under Manage accounts and various options will be listed in front of you. Uncheck any that you either don't really want to sync, or for which you're happy to sync manually.

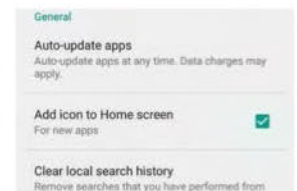


### 4: Sync apps manually

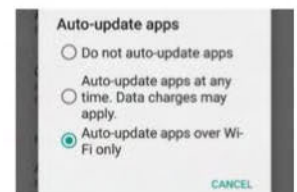
If you turn off Auto-sync globally, you can still sync manually. Tap on your account name under Manage accounts and each option will show a 'Touch to sync now' feature. Touch any of the options and the sync icon will appear. When finished, the sync time will update.

## Switch off auto-updates

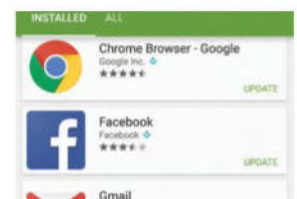
Auto-updating apps is handy, but you can save data by being selective



In Google Play, go to Settings. Your current update setting is shown under Auto-update apps. If it says 'Auto-update at any time' you can reduce your data use with these simple steps.



Tap on Auto-update apps and you'll be shown the three options available on screen. Although you could turn it off entirely, we suggest you select the 'Auto-update apps over Wi-Fi only' option.



If you're away from a Wi-Fi hotspot you can still update specific apps manually. Press the menu button on your phone and select My apps. Tap on the app and then tap on the Update button.



# Compress data with Onavo Extend

Use this third-party app to squeeze more out of your monthly allowance

Much of the data that is transmitted to our phones is inefficiently coded. This means that it can be compressed before it's sent and uncompressed when it's received. As a result, you'll use less data daily, although exactly how much you'll save is hard to say because it differs from one type of data to another, but there's usually a significant saving.

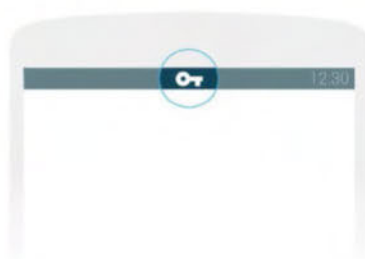
Some Android web browsers like Opera Mini have data compression built in. However, this only works when you're viewing webpages. Onavo Extend, on the other hand, works with webpages and with apps. It does this by creating something called a VPN (Virtual Private Network). Instead of connecting directly to a third-party site,

the app connects to the Onavo VPN, which provides a compressed version of the data, and then uncompresses it on receipt.

Onavo Extend works with Ice Cream Sandwich and later versions of Android only, so quite a few version and compatible. To use it on your device, install it from Google Play and read on to see how to use it.

## Onavo Extend | Compress incoming data

Turn on maximum savings



Savings ON



All set!

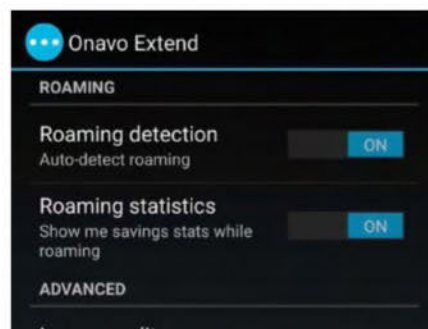
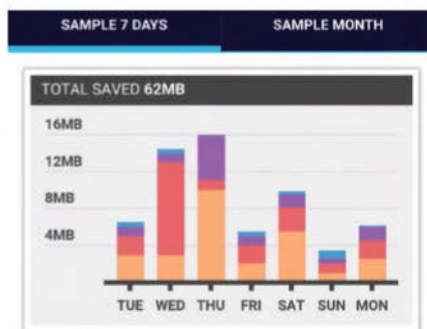
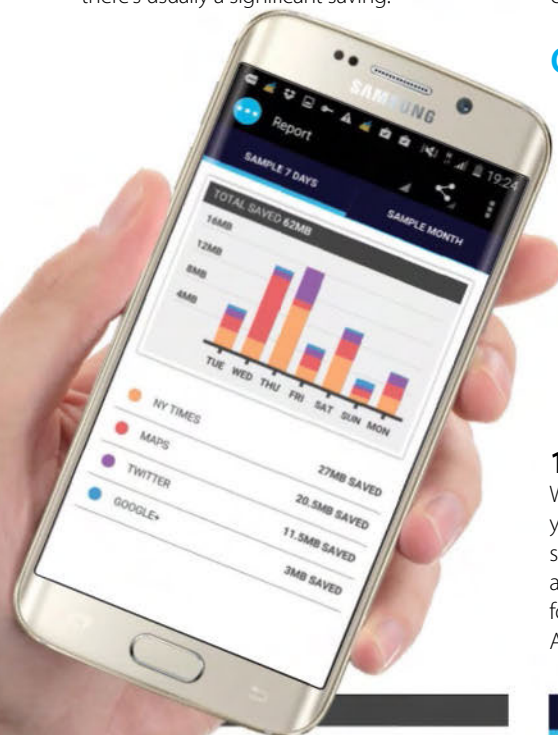
Soon you'll start to see savings here.

### 1: Initial setup

When you first load up the Onavo Extend app you'll have to go through the initial service setup. This is straightforward and involves you accepting the terms of service and agreeing for a VPN to be set up. You should also tell Android that you trust this app when it asks.

### 2: Up and running

All being well, you'll now be shown a screen that indicates that data saving has been turned on. You'll also see a key icon in your phone's notification area – this indicates that a VPN connection is active and will be there whenever Onavo Extend is working.



### 3: Saving data usage

Now go about your day and use your phone as you normal would. However, after a few hours reopen Onavo Extend. The app will now show you how much you've saved both as a percentage and in terms of the actual amount of data in megabytes.

### 4: In more detail

To learn more about your Onavo data savings, select Reports from the main menu and, using the tabs, choose to view either a week or a month. Bar graphs will appear, indicating how much you've saved on a daily or weekly basis, for each of your apps.

### 5: Fine tuning

Initially, Onavo Extend will compress images using its medium setting. However, you can choose more compression, which will result in poorer quality pictures, or less compression and get improved quality. Change this and other options in the Settings menu.



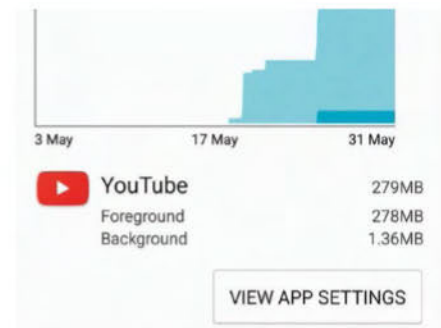
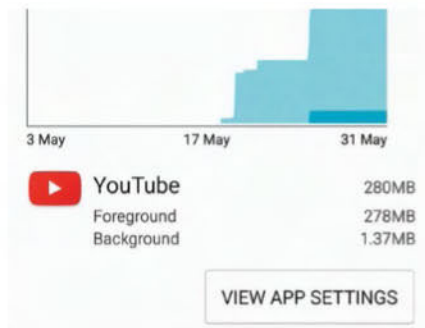
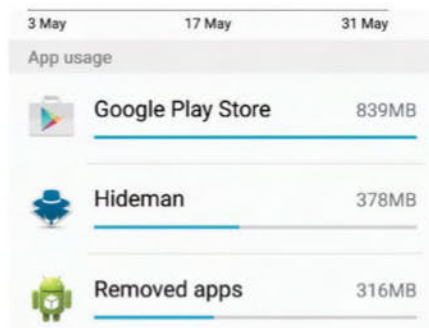
# Background apps

Keep a closer eye on your apps to prevent them from using background data

Increasingly, apps are using data in the background without your knowledge. This all adds up and, to make matters worse, it isn't always obvious which apps are the culprits. Some apps let you choose whether they're allowed to use data in the background, but not all by any means. Fortunately, though, the most recent versions of Android (Ice Cream Sandwich

and onwards) include some useful facilities that we delve into in a bit more detail here.

First, there's a means by which you can keep an eye on how much data your apps are consuming in the background. Second, armed with that information, you can tell Android to restrict data use of those apps that are eating into your precious monthly data allowance.



## 1: List all your apps

Select Wireless & networks and then Data usage from the Settings menu. At the top you'll see a graph of data usage over time – which is pretty useful in itself – but if you scroll down you will find all of your apps listed for you.

## 2: Reveal offending apps

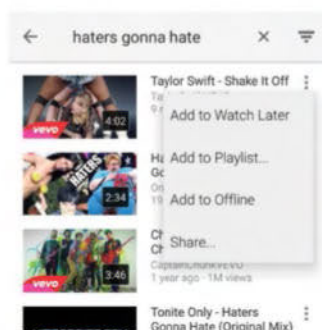
One at a time, tap on any apps that you suspect could be using lots of data. Data usage is shown as two figures. Foreground relates to when you're actually using the app, while Background is what it's using behind the scenes.

## 3: Restrict data use

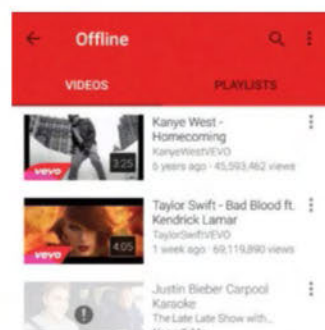
If you think an app's using too much data, tap on 'View App Settings'. From here, you can adjust settings and limit some apps data usage. However, not every app allows you to do this, in which case 'View App Settings' will be greyed out.

# Save YouTube and Play Music offline

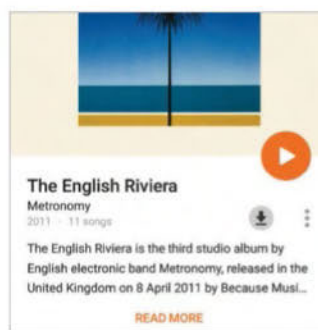
With a Google Play Music subscription, you can download YouTube clips or Music tracks



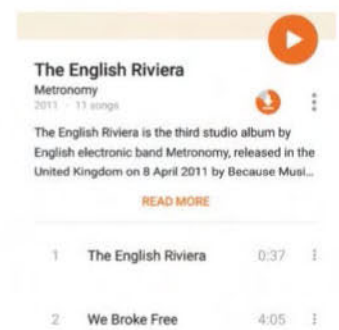
With a Google Play Music or YouTube Music Key subscription, you can save music to your Galaxy and store them offline. In YouTube, log in, then search for a video. Tap the drop-down menu for a video, tap Add to Offline.



To access your downloaded videos, tap Settings and scroll to Offline. Tap this to view all of your saved videos and playlists. Please note, this feature only works with music videos, so any other video will display as 'Unavailable.'



When you listen to music in Play Music, you're streaming it from the cloud, which uses data, but you can download songs to listen to offline. Check you're logged-in and connected to Wi-Fi, then search for a track or album.



When viewing the track or album's profile, tap the grey icon with a down arrow on it beside the drop-down menu button. This icon will then turn orange as it downloads the tracks. Once completely orange, it's complete.



# Protect your privacy

Keep your personal data safe with this privacy masterclass



Online privacy is an issue that is rarely far from the headlines. Whether it's Google tracking your every movement or malicious apps stealing your data, smartphone and tablet users are becoming increasingly vigilant to keep personal data hidden. It was reported last year that 97 per cent of malware is targeted at Android devices and, although that mostly came from third-party apps, that is a worrying statistic. In this masterclass we provide you with a range of ways to keep your habits hidden. We show you how to stop Google tracking your movements and how to wipe data from your Galaxy should. We've also got an tutorial on keeping photos hidden from prying eyes and the best browsers and apps that ensure that your searches never see the light of day and alert you to any apps that might be swiping personal info. To start, here are five top security tips:

## 1. Stay with Play

Most malware comes via apps from non-regulated sites, so if you stick to the Play Store you'll probably be fine. Go to Settings>Security and make sure Unknown Sources is unticked.

## 2. Check your permissions

Many apps need info about your Galaxy and your habits to run properly. However, some ask for permission to do more than they need, like record audio and send messages. If unreasonable requests are made, be suspicious.

## 3. Avoid public Wi-Fi

Hooking to a public Wi-Fi spot is an open invitation for people to steal your data. Using cheap equipment, hackers set up fake networks, redirect your device and see everything from your apps to passwords you're typing in.

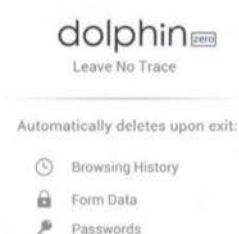
## 4. Go private

Go to Settings>Private Mode and you can hide photos, videos, music, voice recordings and files from anyone who doesn't know your password.

## 5. Use password vaults

Apps like 1Password store all your passwords in one place, which sounds dangerous but they are well protected. If you forget your password to the app, they're all lost forever, which stops hackers from taking guesses at your code.

## The best privacy apps | The best apps for staying safe on your mobile



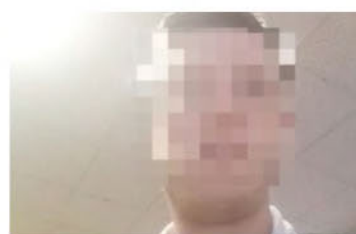
### Dolphin Zero

Dolphin is a good browser to explore the web with on your Galaxy device, but its party piece is that it instantly forgets every site you've visited and every password you've entered, not leaving a trace for hackers.



### Clueful Privacy Advisor

Clueful analyses permissions requested by the apps on your Galaxy and then determines their risk factor. If an app asks to post statuses or listen to audio, Clueful flags it up, warning you before you agree to anything.



### ObscuraCam

A very useful little app, ObscuraCam can pixelate faces in photos so they can't be identified. Better still, it removes any GPS data that could be in your stored in your photos, keeping more information private.

### Do I have spyware on my Galaxy?

If it starts behaving strangely, like randomly lighting up or shutting down, this may be spyware working in the background. The hidden app could drain your battery or data, so look out for that.



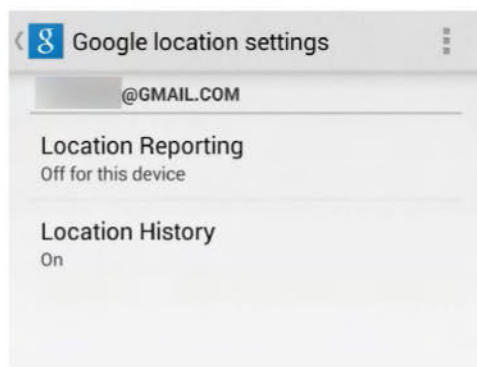
# Stop instant sharing

Prevent Google from tracking and sharing all your information

Google Maps is a useful app, but by asking Google how to get to the train station, you're also allowing it to know where you are. Once you provide it with the initial permission to know your location, Google can track your whereabouts

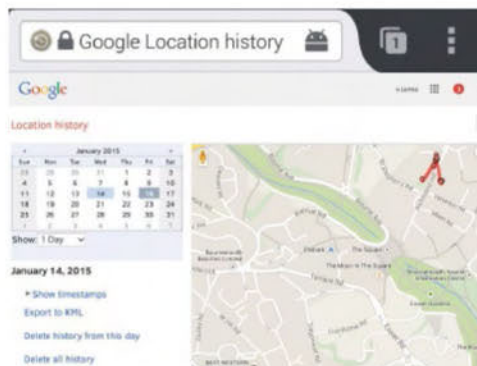
all day long. That should only be a problem if someone hacks into your device to learn your movements, which they could then use to steal your identity. Preventing Google from logging your movements helps keep your activities private.

## Google Maps | Stop Google from logging your movements



### 1: Switch off your Location History

Open up the Settings app on your Samsung Galaxy phone or tablet and scroll down until you find the Location option in the list of options. Tap on it and find Google location settings. Once inside, you should be able to see the option to turn Location History off.



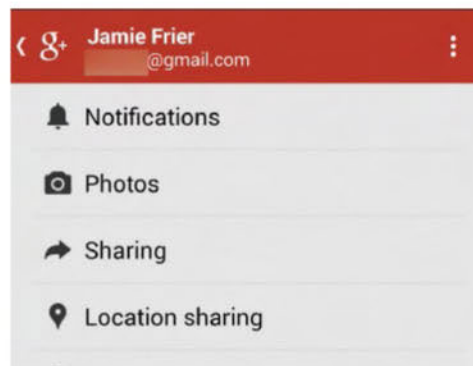
### 3: Delete your history

If you want Google to forget all the different places that you have visited at some point in the past, type [maps.google.com/locationhistory](https://maps.google.com/locationhistory) into your browser. This will bring up all the records that Google has for your movements, which you can delete altogether or individually.



### 2: Location reporting

The other option inside the Google location settings is to turn off Location Reporting. This can be done by tapping Location Reporting and selecting Off for this device. However, this will prevent Google Maps and Google Now from working as well.



### 4: Stop Google+ sharing

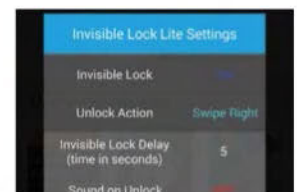
To prevent location sharing from Google+, open the app, choose Settings, then select Location sharing and switch it off. However, your location will only be pinpointed if you have specified people in your circle you feel comfortable sharing it with before.

# Great mobile lock screens

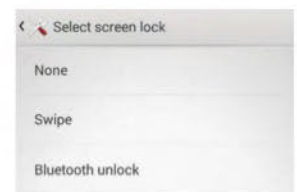
A secure lock screen provides privacy - here are the safest options



Activating Hidden Lock brings up a padlock icon randomly on screen. It then disappears, so someone can only unlock your phone by luckily tapping the right spot on your Galaxy's screen.



Invisible Lock Pro isn't free but does provide good protection for your Galaxy. Swipe up, down, left and right to unlock your phone. The number of combinations could fool an intruder.



Face unlock has been on Android devices since 2011. Go to Settings>Security>Screen Lock>Face Unlock. However, someone similar looking to you could unlock your phone.



# Protect your photos from prying eyes

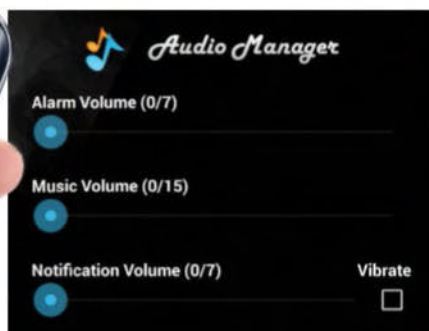
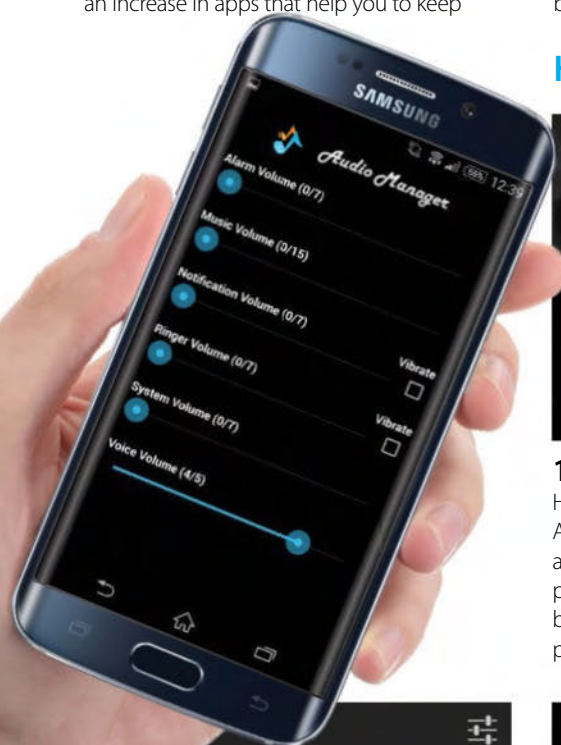
Hide the photos you don't want the family to see with Hide It Pro

Whether they're rude, personal or just embarrassing, most people will have photos stored on their phone that they don't want everyone to see. As recent leaks in celebrity nudes has shown, you can never be too safe with your private photos and info. The rise of camera phones has seen an increase in apps that help you to keep

certain snaps hidden from prying eyes via a range of useful tricks. Many of these apps have the ability to take a photo of someone who has incorrectly entered your password, showing you who is trying to access your hidden pictures (very useful with a vengeful ex). Many other apps disguise themselves as bland, uninteresting apps, such as calculators,

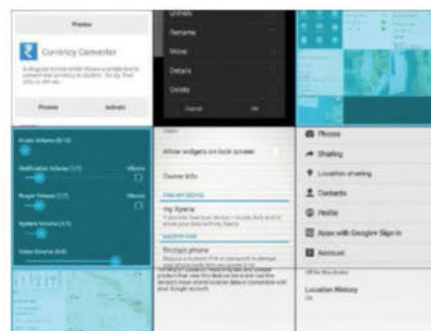
to throw snoopers off the scent. One of our favourite hidden photo apps is Hide It Pro. It uses an innovative method of keeping the app a secret by hiding it as an audio manager, but it can also store a range of files, from photos to notes. We've put together a few tips on how to get the most out of this excellent photo vault.

## Hide it Pro | Keep your photos to yourself



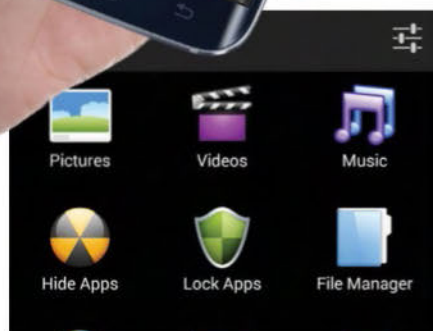
### 1: Open the app

Hide it Pro is disguised on your phone as Audio Manager. Pressing the icon launches an app that can change the volume on your phone, but a long press on the app name brings up a password screen. Typing that password in will reveal the hidden files.



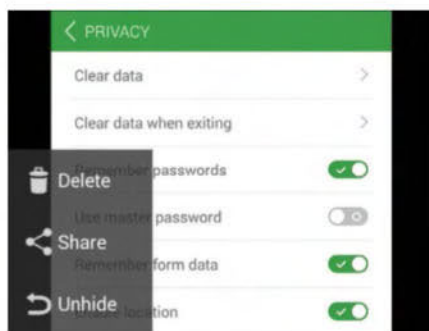
### 2: Pick your photos

Tap the Pictures icon to bring up your photo files. Highlight each one that you want to be hidden with a quick tap and choose Hide Selected Files. This will then cleverly transfer all of the selected photos to a new, hidden album placed within the app.



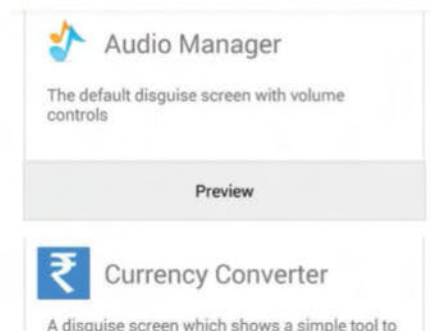
### 3: Hide multiple files

Using the same method you are also able to hide messages, videos, music, apps and notes. As you add a file to a hidden folder it is removed from your phone's main gallery or store, so you needn't worry about going back to delete them afterwards.



### 4: Unhide your photos

If the files you've hidden suddenly no longer need to be private, load a photo back up again, then press and hold the screen. Select the option Unhide, which will restore the photo to your phone back into the folder from which it was originally removed.



### 5: Choose your hiding place

Hide It Pro offers a range of options to keep your files under wraps. You can change the disguise screen to things like mundane currency converters or a daily joke app. You are also able to choose where on your phone to hide the vault so you don't forget.

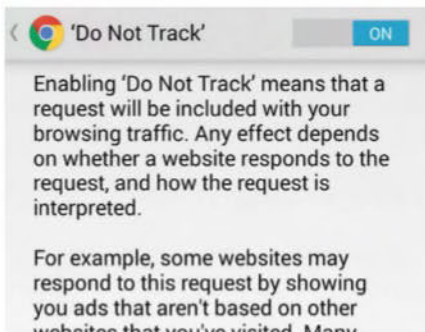


# Cover up your tracks

How to activate the Do Not Track agreement when browsing the web on your Galaxy

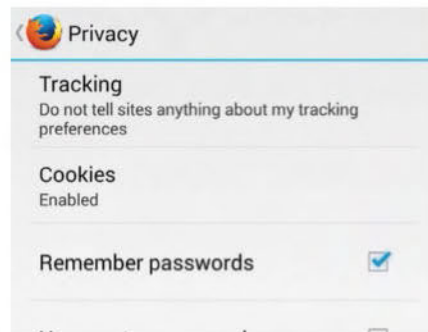
Do Not Track is a voluntary scheme in which websites promise not to track your online activity. It has hit a few problems, as many websites don't actually change their habits when you sign up and many of those who do, still collect data but simply limit the amount of personalised adverts that you can see when you are on them. However, websites such as Twitter

and Pinterest have fully signed up so they won't track your online behaviour once you have activated the Do Not Track option. The DuckDuckGo search engine also doesn't track any of your searches or store any of your personal information. Below is some useful tips on how to set up Do Not Track on some of the most popular browsers available on your mobile.



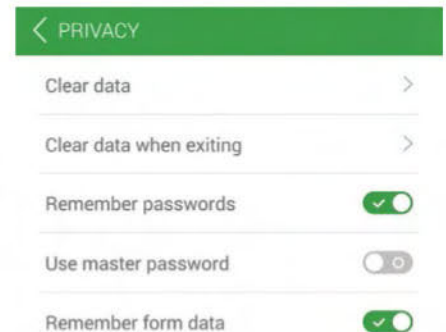
## 1: DNT for Chrome

Tap the trio of dots in the top, right-hand corner of your Chrome browser and select Settings. Scroll down to Privacy, select Do Not Track and then select On. When in Settings you can also decide whether to save passwords or not.



## 2: DNT for Firefox

Tap the top right-hand corner of the Firefox browser and go to Settings. After selecting the Privacy option, click on Tracking. You will be faced with three options and to avoid being tracked, select 'Tell websites I do not want to be tracked'.

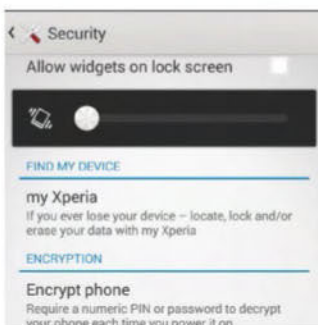


## 3: DNT for Dolphin

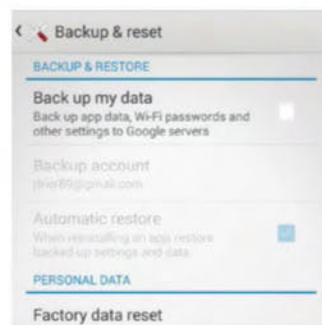
Dolphin hasn't got a specific setting for Do Not Track, but it has some very good privacy features. Click the dolphin at the bottom of the screen, select Settings>Privacy. Then you can clear all data from your session and disable location tracking.

# Wipe your phone's data

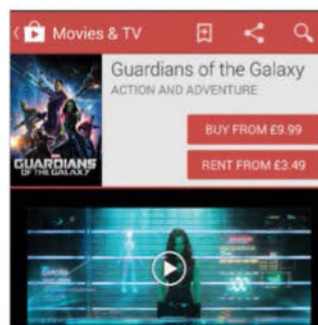
The most comprehensive way to erase everything from a Galaxy before you sell or scrap it



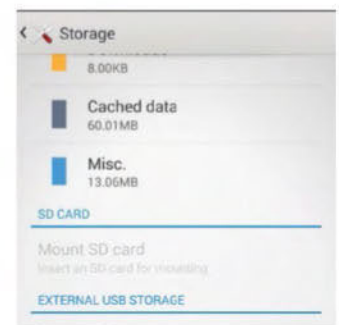
Even after a full wipe some data can still be accessed. Encrypt all your data by going to Settings>Security>Encrypt phone. You will then have to input a password to decrypt anything still left on the phone.



Perform a full system back up. You can then reset your phone by going to Settings>Backup & Reset>Factory Data Reset and selecting Reset Phone. This makes the phone instantly forget where your data is stored.



To further protect your data, reload the phone with non-personal content, like videos and music. Once your phone is full, repeat the second step. This will bury your real data beneath the useless stuff making it hard to find.



The SD card also needs to be dealt with. Back up all the data on it, then go to Settings>Storage and find Erase SD card at the bottom of the screen. Erase the data, add in some fake files again and re-erase it.



# Spring clean your Galaxy

Get rid of that annoying junk and take your device's performance to new levels

Galaxy device's are powerful things, but on occasion you need to give them a bit of a boost. By spring cleaning your device you can considerably increase performance. The areas in which you may need to spring clean your device can seem odd, but by doing it a few times a year you'll notice a substantial improvement and increase longevity.

We've looked to identify the most common areas that require some attention. You'll find a tutorial helping you find hidden files and how to safely remove them. Any spring clean wouldn't be complete without a thorough virus and malware scan, so we've shown you how to best use Malwarebytes. There's also tutorials to boost your battery life and merge duplicate contacts. Here are our top spring-cleaning tips.

## 1. Open apps

On the bottom of your device is a double panel icon, which will show you all the apps that are

currently open. Simply swipe on the app to remove it from the list and close it permanently.

## 2. Google Music All Access

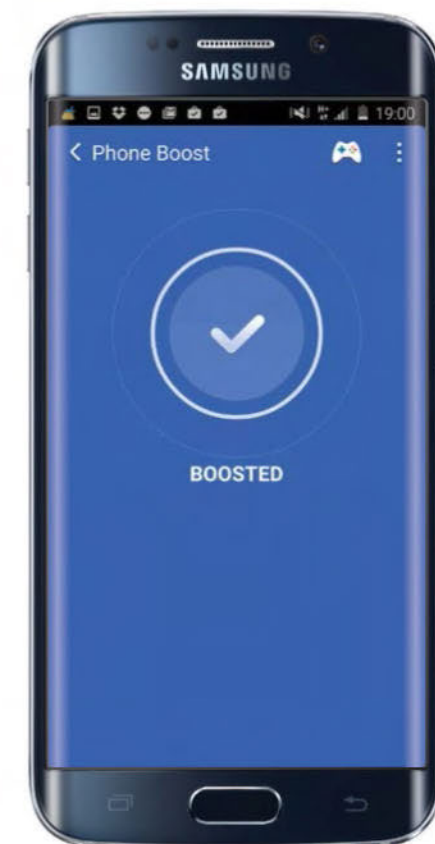
Great for streaming music, but downloading can use up a lot of storage. Make sure you use the de-pin option to make sure no songs are downloaded without your knowledge.

## 3. Manage your toggles

If you aren't using your Wi-Fi or Bluetooth, make sure they're disabled as they drain your battery. The same goes for making sure you're using a low screen brightness level.

## 4. Old SMS and MMS messages

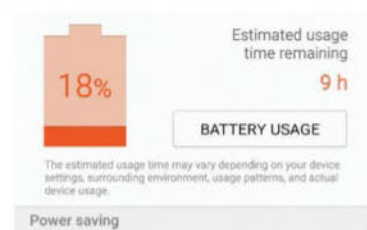
One area of spring cleaning that's easy to do is to make sure you delete any old SMS and MMS messages that are clogging up your device. Use the Record SMS app if you're unsure on how to do this.



## 5. SD Maid

As well as spring cleaning your phone, why not make sure your SD card is also running at its best. The SD Maid (which we've also featured in this masterclass) has a great option to optimise external SD cards.

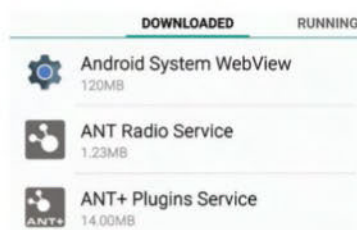
## Spring clean without apps



## Get more battery life

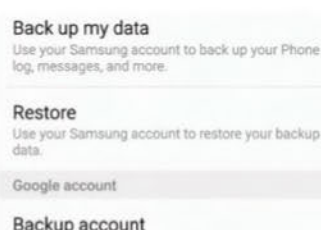
The battery management screen is great for optimising how your battery life is used. Certain phones will have pre-determined battery-saving modes available, if you don't want the hassle of creating your own.

## Use Galaxy's in-built spring cleaning options



## Manage RAM usage

Through the Apps option within the Settings menu, you can take a look at the apps currently running on your Android device. By then selecting an app you can manually stop it with a simple tap if you feel it necessary.



## Start over from scratch

For the ultimate spring clean, why not take advantage of your device's in-built factory reset option? Navigate over to the Backup & reset menu in the Settings application where you'll find this clever option listed.

## Do I need a task killer?

Although they are useful tools to have, task killer apps can actually cause more issues than they fix. In some cases they can hinder certain app's performance and often tend to be a massive drain on your Galaxy device's battery life.



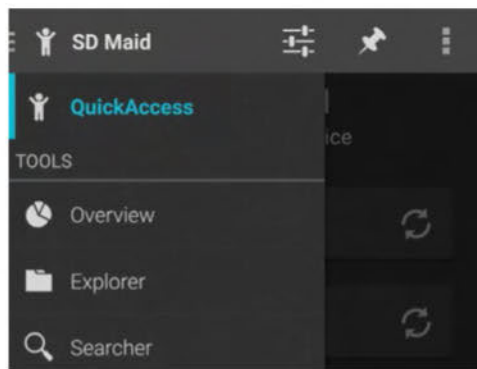
# Safely remove system files

Remove files you never knew existed via SD Maid

Sometimes Galaxy devices do things without you even knowing. One of these is the creation of directories and files without your consent – which take up vital storage. To the average user, many of these files will go unnoticed, but it's important to

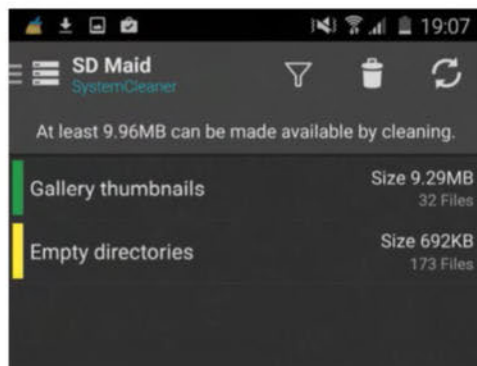
keep on top of them if you want to properly spring clean your device. In this tutorial, we'll show you how to use the SD Maid app to find these hidden files and remove them correctly so there's no detrimental effect on your device.

## SD Maid | Remove hidden files



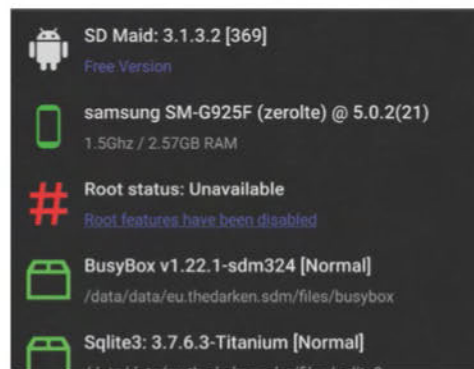
### 1: Explore the app

SD Maid is a fairly convoluted app, so you should make sure that you fully explore it before performing any functions. Open the side menu once done to see the various options on offer. Before selecting the System Cleaner, select the Overview option.



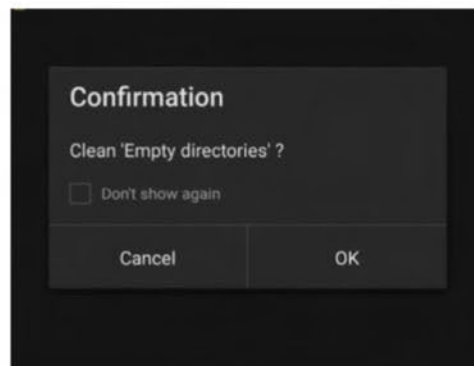
### 3: Find hidden files

Now select the System Cleaner option from the side menu. The app will now perform a full scan of your Galaxy device for you and find hidden and system-created files that are safe for you to remove. Once completely finished, select the files you want to remove.



### 2: Current state of device

This screen in the app is fantastic at showing you the areas of your Galaxy phone or tablet that could really do with a good spring clean. Although we're using SD Maid to remove hidden files, it's also perfect for removing unnecessary apps and cached files.

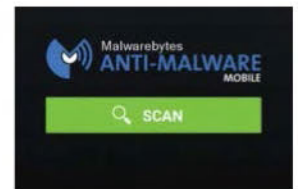


### 4: Safely delete files

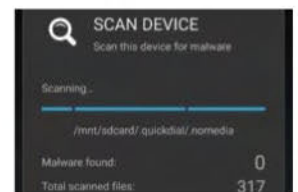
After removing all the files in question, you can see how much storage you've removed. Although it may not seem like a lot of storage, the more you use your device, the more of these files are created, so it's important to stay on top of it and repeat this process every now and then.

## Find malicious software

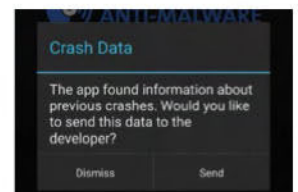
It's a good idea to check for malicious apps on your Galaxy device



After you're done downloading and installing the Malwarebytes app, open it and select the Scan Now options listed on the main screen to start a full scan of your phone.



Depending on how much stuff you've got stored on your device, the scan can take a little while. This truly is a really thorough app, so if there are any malicious files, it'll find them.



Once completed, go on and check out the results. If anything is found, then choose to remove through the app. You should notice improvement in your Galaxy device's functionality.



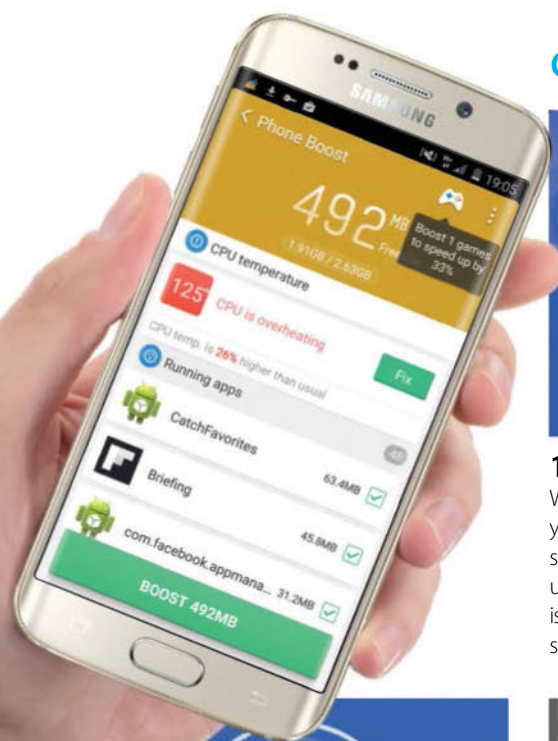
# Optimise your device's RAM usage

## Remove background apps and functions with Clean Master

One of the best things about owning a newer Galaxy device like the new S6 and S6 Edge is that they tend to have a vast amount of virtual memory, or RAM, for you to use. However, with newer devices has come a whole new plethora of more power-hungry apps that require a good amount

of your device's RAM to be used properly. If you've ever noticed any significant slow down on your device, chances are it's due to the amount of RAM your phone is using and it's an even bigger problem if you don't close background apps or functions that tend to constantly drain your device's RAM.

Although there are plenty of apps to help manage RAM usage, our favourite is Clean Master, which we cover in this tutorial. This app provides a full scan of your Galaxy device and identifies the areas in which you can save some precious memory, helping you to make your device run faster.

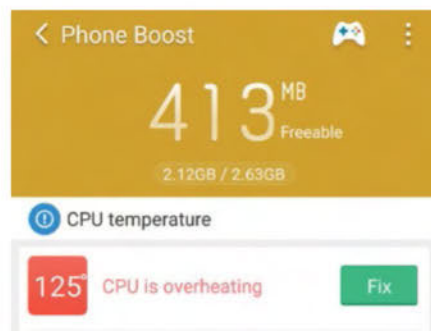


## Clean Master | Stop apps running in the background



### 1: Check to see usage

When you first open up the Clean Master app, you'll instantly be able to see both how much storage you've left on your phone and your useable memory on the right. If your RAM is below 50 per cent, you'll want to free up some room.



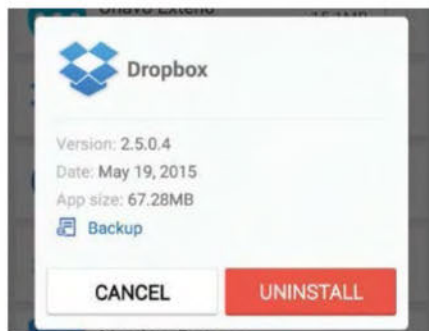
### 2: Select apps

Select the Phone Boost option from the main screen. Now you can check out the apps that are currently using up your RAM usage and how much each one is taking up. Select each app you want to close and press the Boost button.



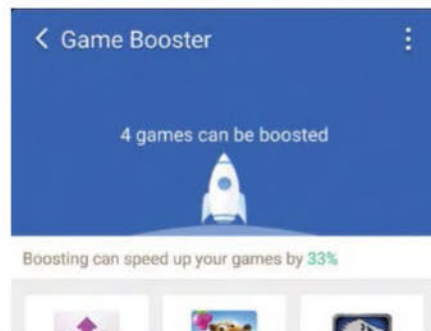
### 3: How much was released?

Your phone now will fully close these apps, but it could take a while depending on how many apps you selected. Once completed, an evaluation screen will appear where you can see just how many megabytes of your RAM were saved.



### 4: Take a closer look

If you're interested in seeing an app in closer detail, before giving your RAM a memory boost, you can select the app in question and check it out. You can then see a quick overview of the app and the areas it requires your phone's RAM.



### 5: Boost your games

Another great function of Clean Master is to boost the RAM used in your games to help remove any lag on your Galaxy device. While within the app, select the game controller at the top and then select the games you want to boost from the list.



# Remove and merge contacts

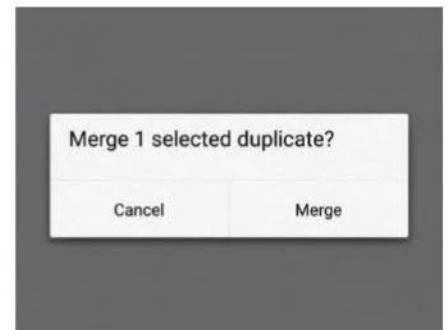
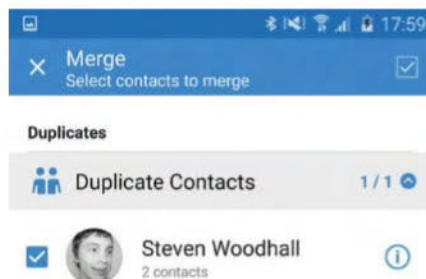
Use Simpler Merge Duplicates to easily remove repeated entries in your phone's contact list

Whether you've had your phone for a number of years, or just a few weeks, chances are you'll have many contacts stored on it. Although it's nice to have plenty of contact details, it's a common problem to frequently run into duplicate contacts. This is even more so if you import contact details from your various social media accounts, which can quickly

use up a good portion of your phone's internal storage without you really knowing at all.

With the Simpler Merge Duplicates app, users can perform a scan of their phone's contact list and identify the contacts that need merging or simply deleting. Follow this tutorial to learn how to get the process done.

Show possible merges



## 1: Smart searching

With the Simpler Merge Duplicate app installed, open it up and the app will instantly scan your address book to duplicate entries. Once the process is complete, the total number of a repeated contacts will be listed. Tap to continue.

## 2: Merge selected contacts

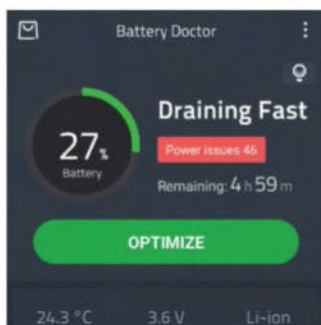
A list of potential duplicates will now appear. Check the app hasn't mixed up any contacts by tapping the i button to view additional information. If contacts shouldn't be merged, deselect them by tapping the tick box next to their name.

## 3: Complete process

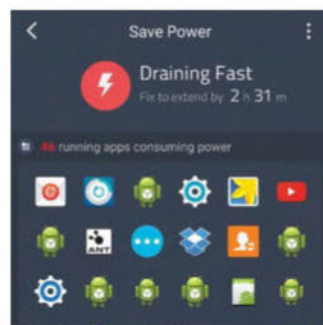
Once you've finished double-checking contacts, tap the Merge button at the bottom of the screen, the process will then be completed. Simpler Merge Duplicates will merge 15 contacts for free, additional contacts require an in-app purchase.

# Boost your device's battery life

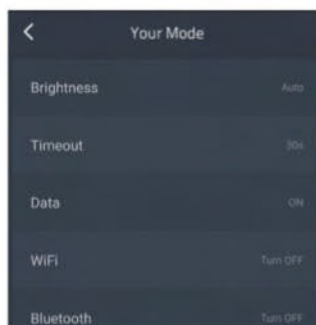
Get even more from your battery life by performing a few simple tasks in Battery Doctor



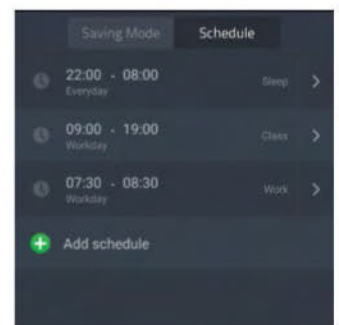
When you first open up the Battery Doctor app, it'll do a quick scan of the current status of your battery. This will give you a quick indicator at how much spring cleaning you'll need to do on your all-important battery.



The app takes you to the battery optimise screen where you can close running apps and alter toggles to improve battery life. At the top of the app you'll be able to see how many minutes and hours you could save.



Go back to the app's homepage and select the Your Mode option provided. This will list some of the most common battery drainers and how your phone deals with them. Toggle with various ones to optimise the battery.



There's also a great Schedule option to create various battery-saving modes at different parts of the day depending on your usage. It's a great idea for those wanting to save battery while they sleep, for example.

# Tricks

Discover the best third-party app solutions for everyday situations

## 66 Reskin your Galaxy device

Tired of your phone's static looks?  
Customise everything to your preferences

## 68 Coordinate connected devices

If you have more than one Samsung Galaxy device, connect them!

## 70 Sync files across devices

Sharing between your various mobile devices doesn't have to be hard

## 71 Access regional content

Use VPN to access restricted content

## 72 Get apps for free

With AppGratis, you can download almost any app for free

## 74 Manage your files with Cabinet Beta

Stay organised with this handy app for your Galaxy

## 76 Take photos remotely

You can create your own remote to take pictures from a distance

## 78 Your own Instagram filters

If you're tired of Instagram's own selection of filters, you can just make your own

## 80 Sync photos to Google Drive

Cloud storage is made easy with the Google Drive app for Android

## 82 Save YouTube Videos offline

Rewatch clips and music videos without using data

## 84 Monitor your memory

Find out how to save memory on your Galaxy to save the things that matter

## 85 Track down a lost device

If you've lost your precious Galaxy, there's no need to panic

## 86 Create a secure private picture vault

Keep your pictures safe from prying eyes with a secure vault

## 88 Automate your Galaxy

Learn how to automate your Samsung Galaxy device within no time

## 90 Restore deleted files

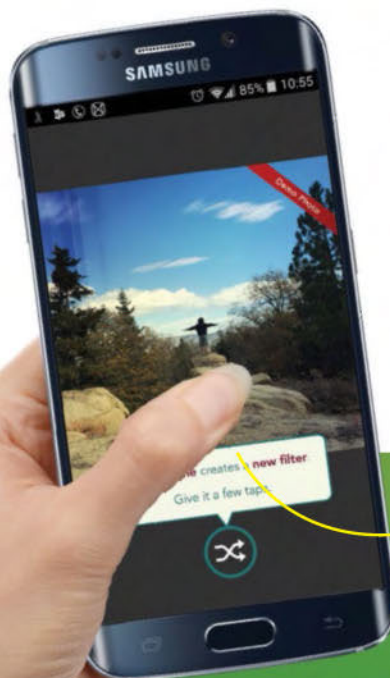
If you've deleted a picture or file and regret it, there's help on hand

## 92 Double your battery power

The eternal grief of a dying battery can be solved with a few tricks

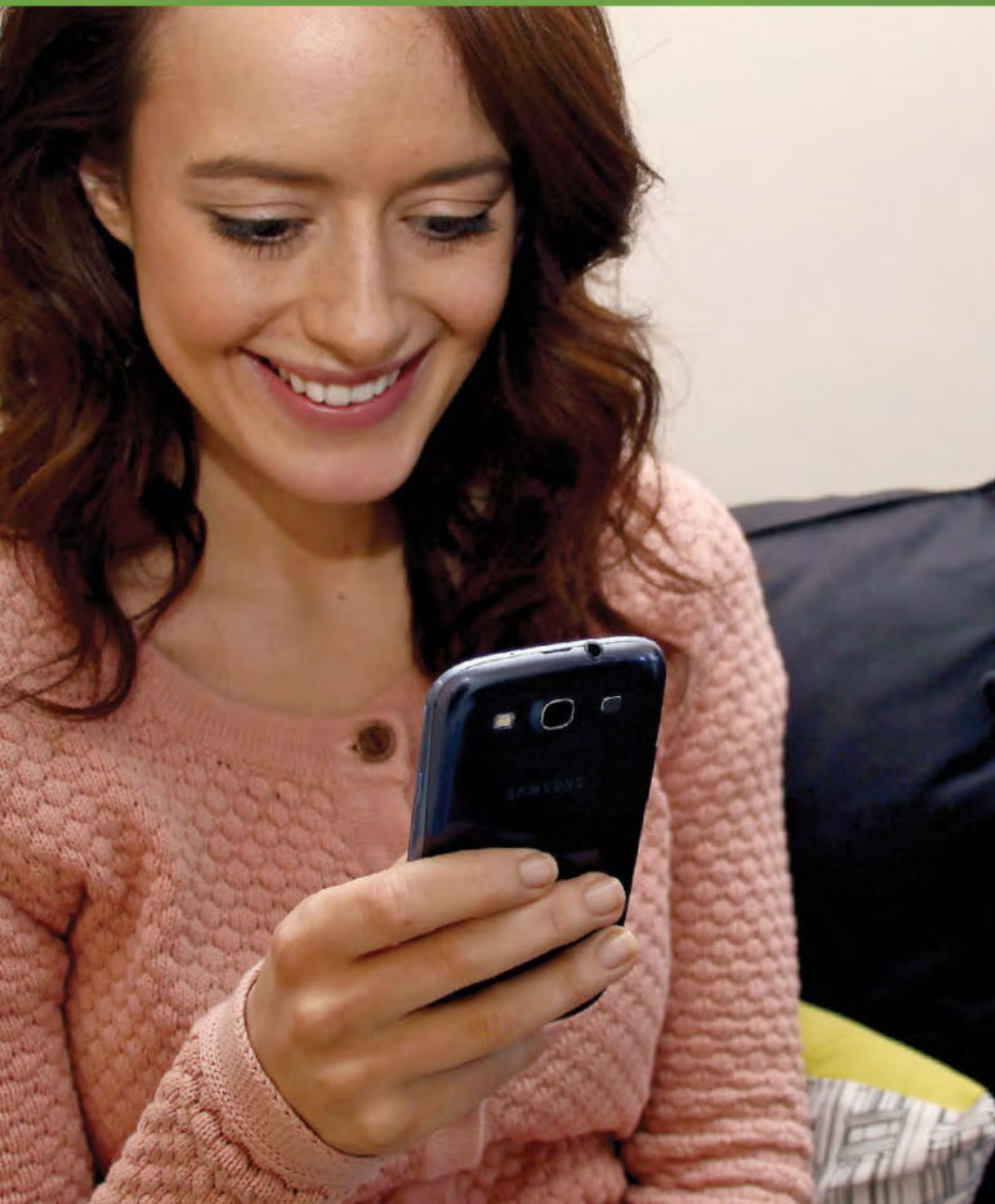
## TOP TRICKS

- ✓ Create notes
- ✓ Manage files
- ✓ Coordinate devices
- ✓ Get free apps
- ✓ Watch TV

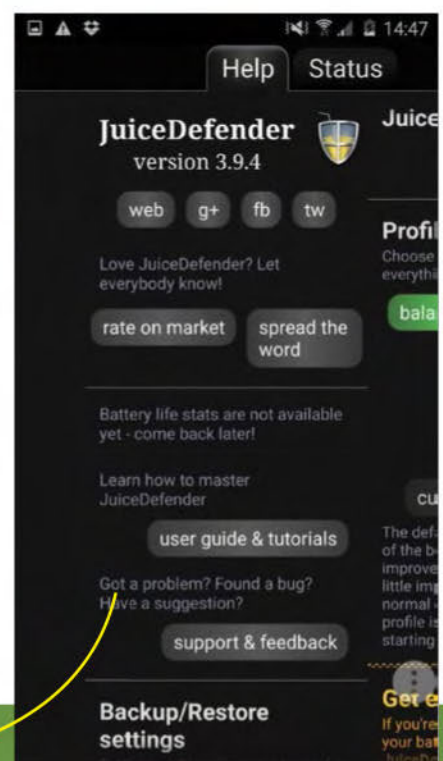


## 78 Your own Instagram filters

## 86 Keep your photos secure



## 92 Keep your battery going strong





# Reskin your Galaxy device pixel-by-pixel

Radically change the look of Android using a range of different launcher apps



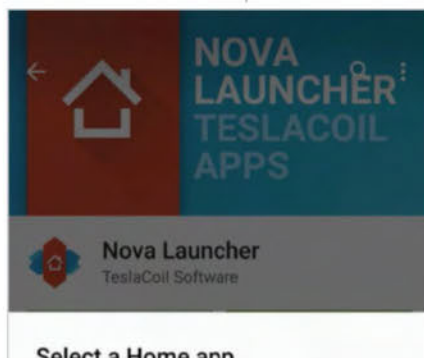
Launcher apps install themselves under every app on your Galaxy, replacing Android's default homescreens and taking over operations whenever you press the home button.

These launchers can create completely different looks from those coded by Google's Android or Samsung. They will give you more control over how your homescreens and menus show up on your device, and they're really fun to use and experiment with.

With Android 5.0 Lollipop launcher apps are natively supported, which means you can view and manage them from the Settings menu. Here, we will use Nova Launcher and Themer, though there are alternatives on the Google Play store that you can check out.

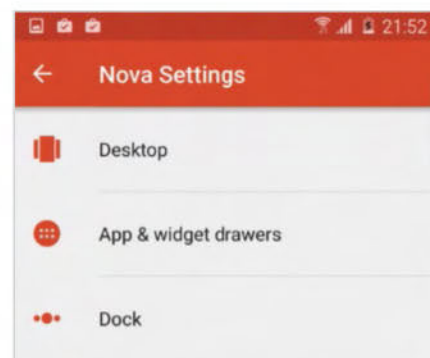
Which one suits you best depends on what you want to do with your device and the time you have to customise it. Even if you're experimenting, you can create great looks.

## Nova Launcher | Change your Galaxy's look



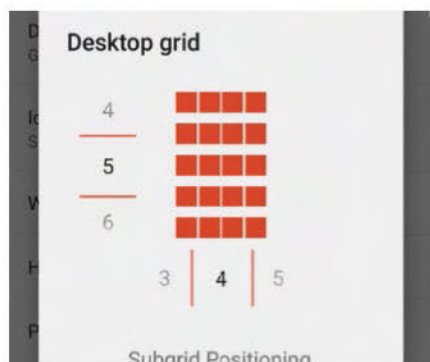
### 1: Set Nova as the default

Once installed, tap Home and you'll be asked if you want to switch from the Google Now Launcher (you do). Tap Home again and you can confirm Nova Launcher as the default.



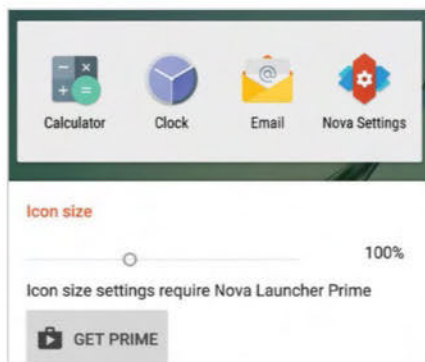
### 2: Configure Nova's settings

Use the Nova Settings icon on the homescreen or in the app drawer to set up Android's new look. The options cover everything from the search bar to the height of the app dock.



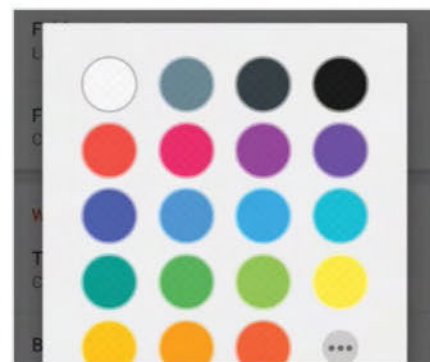
### 3: Set up your homescreens

Start with the Desktop. You can change the shortcuts grid, adjust margins on home-screens, change how menus and wallpapers are displayed, and make widgets resizeable.



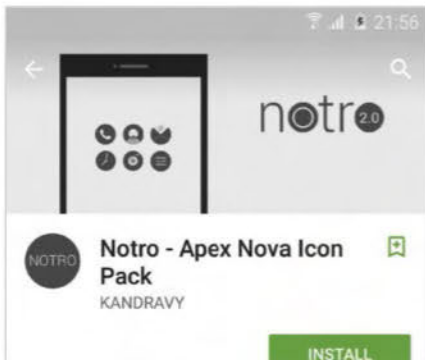
### 4: Alter app drawer options

In the Drawer menu you can alter how the App and Widget Drawer look. You can switch to a long list of apps, change the transitions, tab styles, colours, shadows and more.



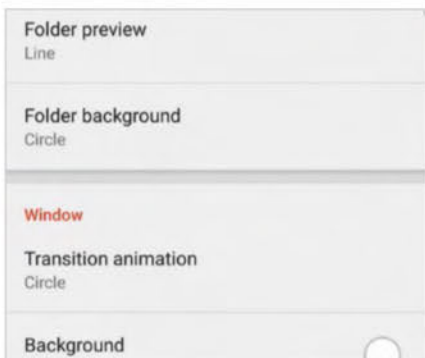
### 5: Pick new colours

Look and feel lets you change Android's look with a few taps. You can change icon themes and sizes, adjust scroll and animation speeds, and turn off the notification bar.



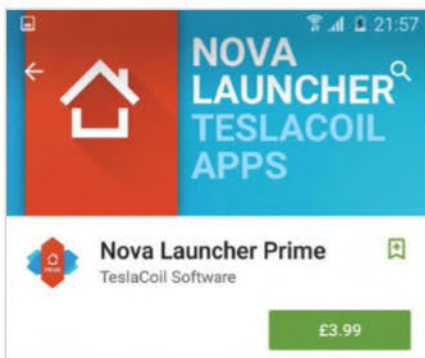
## 6: Download icon packs

On Google Play you'll find plenty of Nova Launcher icon packs to download for free. These can substantially change how your interface looks, or even design your own.



## 7: Configure folder settings

Go to the Folders menu to change how folder icons are shown, the colour of backgrounds, the label icons and the transition animations to suit your individual tastes.

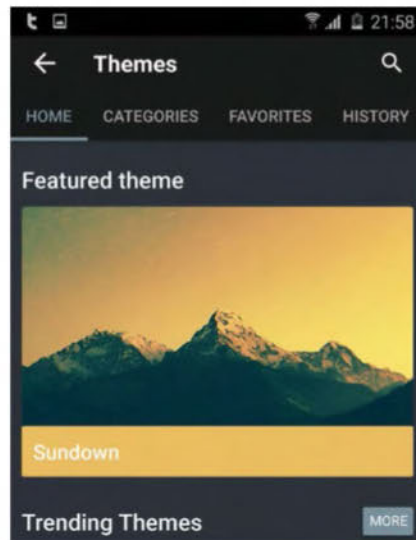


## 8: Upgrade to Prime

Some of Nova Launcher's best features are only available if you upgrade to the Prime edition, which you can do from inside the launcher app. It is available for £2.50/US\$4.

# Connect your phone to a network

You can quickly connect your phone to an FTP network to collect files



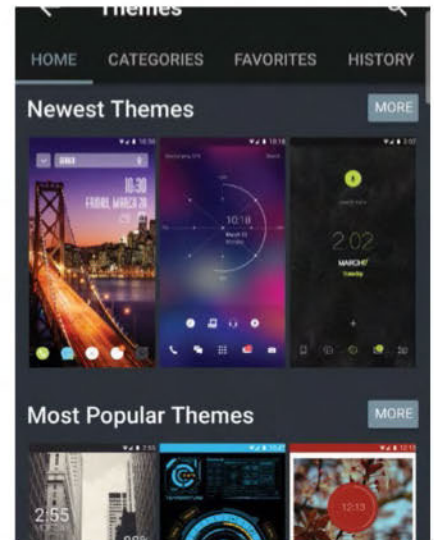
## 1: Get started

The app tweaks wallpapers, icons and homecreens. A long-press on any blank area brings up the settings, for you to configure Themer and change between skins.



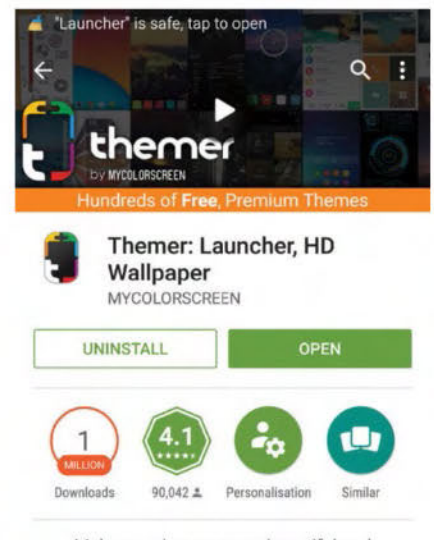
## 3: Apply themes

You can give your Galaxy a totally different look, but you're limited to the themes created by other users, unless you want to build your own (see Themer website).



## 2: Choose themes

Tap Themes to see the different skins made by the Themer community. You can view newest or trending themes, or search by category. Tap on a theme and choose Apply.



## 4: Remove themes

To change theme, just select another theme in the app and select Apply. However, to revert to your default TouchWiz interface, view the app on Play Store and tap Uninstall.



# Coordinate your connected devices

Use Yonomi to connect all of your smart devices with the same app



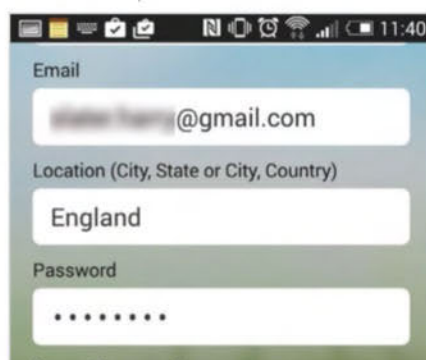
Smart devices are all the rage nowadays, from thermostats to smoke detectors, lights to plug sockets, and there's a huge range of things you can control from your phone. But the more devices you buy, the more apps you have to juggle to keep control of them all. It can be a bit of a fiddle and uses up a good chunk of memory on your Android device.

That's where Yonomi comes in. It enables you to control everything from a single app, setting up

routines that run in the background even when the app isn't running. It's simple to set up and within a few minutes you'll be able to control all of your smart devices with just a few taps. It's free to download from the Play Store and once you've set up an account it connects to your devices, letting you take control.

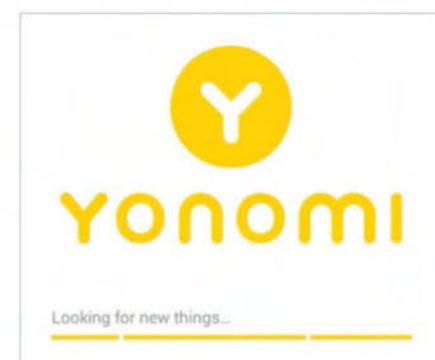
In this tutorial we will show you how to get it up and running, and how to get the most out of the range of features it offers.

## Yonomi | Connect your Galaxy devices



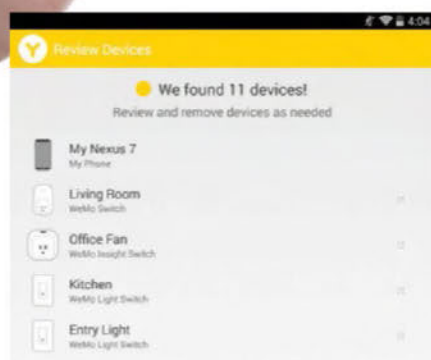
### 1: Set it up

Once you've downloaded the Yonomi app you'll need to set up an account with your name, country and email address. Add a password, tap Join and you're good to go.



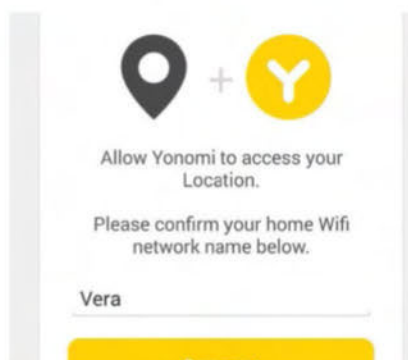
### 2: Have a scan

The app will scan for devices on the wireless network. This could take a couple of minutes, so be patient while it works things out. When it's done you'll see a list of your devices.



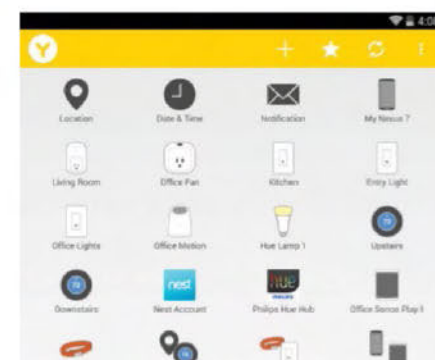
### 3: Check the list

Check the list of devices found. Don't fret if anything's missing, it can often happen, and you can easily add new devices manually when you get into the main part of the app.



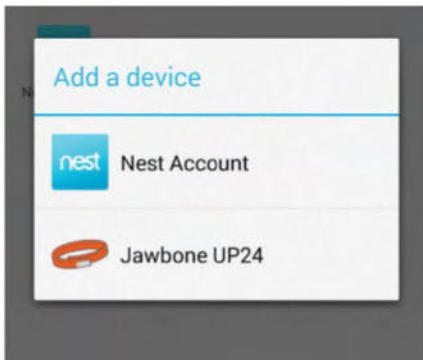
### 4: Turn Location on/off

To finish off the installation, the app will ask to use your location, which will improve the routines that you can create. Make your choice to be taken to the main screen.



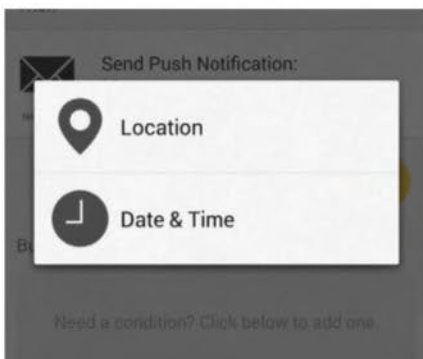
### 5: Explore the main page

The main page shows devices and icons for Location, Date & Time and Notifications. You'll use these to create routines, controlling what, when, and how your devices turn on.



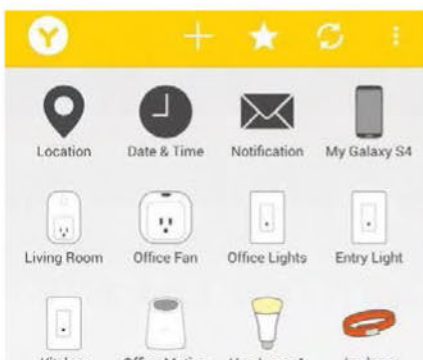
## 6: Find the plus sign

There's a plus sign in the top-right where you can add new smart devices to the app. Tap it and tap 'Add a device'. This will bring up a list of devices and accounts you can connect to.



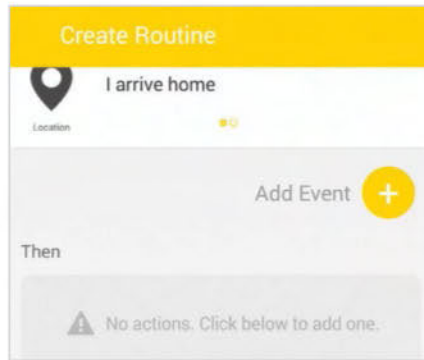
## 8: Tweak your routine

You can add exceptions to your routine. To set your thermostat to turn down when you leave, but only if it's over a certain temperature, add the details into the relevant boxes to do so.



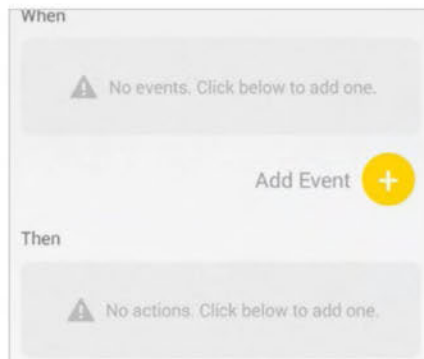
## 11: Study your devices

Different smart devices have different actions and triggers, so get to grips with exactly what each of them can do. Play with the routine settings to see what you can and can't control.



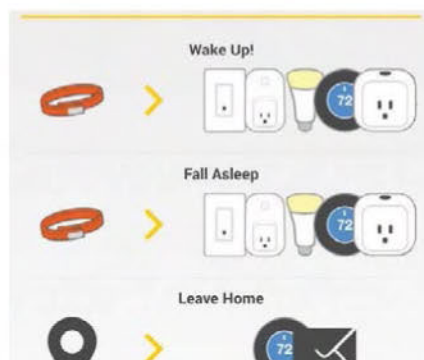
## 7: Create a routine

Making a routine is easy; long press a device you'd like to create a routine for. Drag it to a routine parameters, like time or location, and you'll reach the routine creation screen.



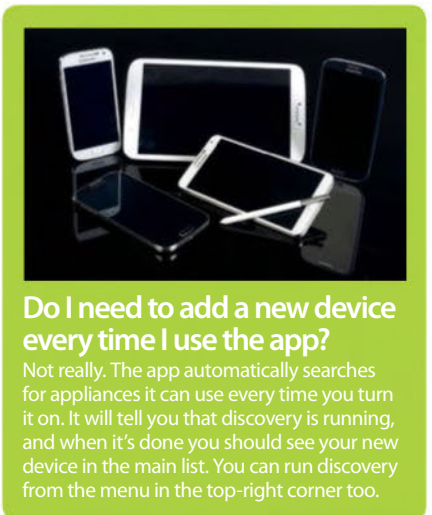
## 9: Add some actions

Create a routine by adding actions in the steps of the recipe, to then be populated with your devices. Tap Add an Action and you'll see the things that you can set your devices to do.



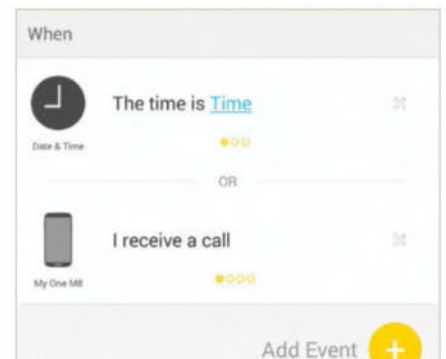
## 12: Look at recommendations

Recommendations are pre-built routines the app thinks might be useful (tap the star on the main screen). As the app learns your routines, it suggests more, so check regularly.



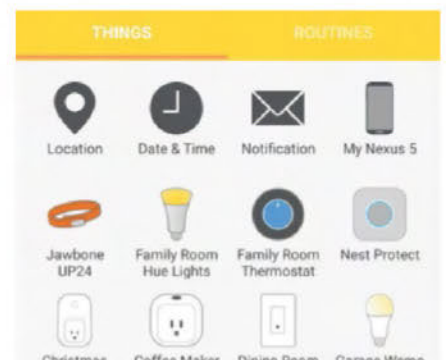
## Do I need to add a new device every time I use the app?

Not really. The app automatically searches for appliances it can use every time you turn it on. It will tell you that discovery is running, and when it's done you should see your new device in the main list. You can run discovery from the menu in the top-right corner too.



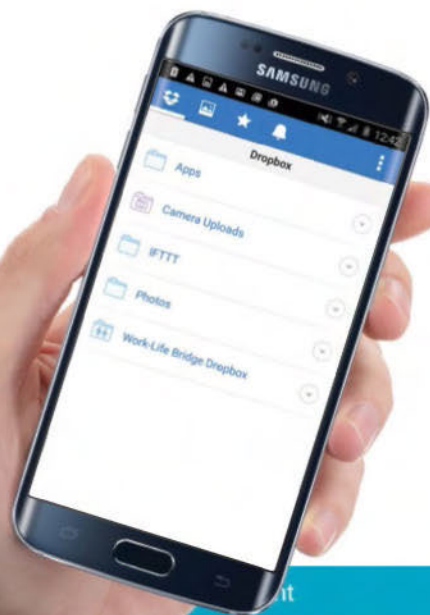
## 10: Multiple routine triggers

To trigger routines with multiple events, just drag them together. You might want your Sonos player to stop when you get a call/text. Drag the phone into the SMS icon on the main screen to start.



## 13: Request some support

If your smart devices aren't supported by Yonomi, email the developer to suggest that it adds them. If enough people ask it's more likely, and it will make the app more useful.



# Sync files across devices

Access files instantly across your phone, tablet and PC

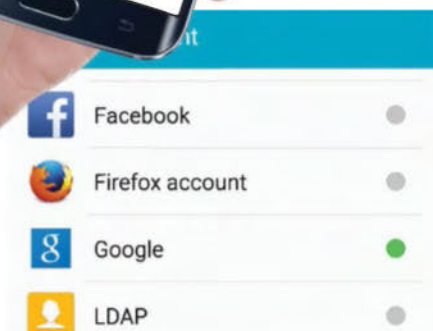
Even though tablets and smartphones are increasingly similar in size, they are used for quite different things. Phones are handier for taking photos, while a tablet is more likely to be used for work purposes.

However, there will come a time when you need to view a document on your phone that had been typed on a tablet, or show a friend a photo on your tablet that you took with your phone. Therefore, it's useful to sync your

devices so you can switch between them with ease. There are a number of ways to sync your devices so you don't have to take all of them with you.

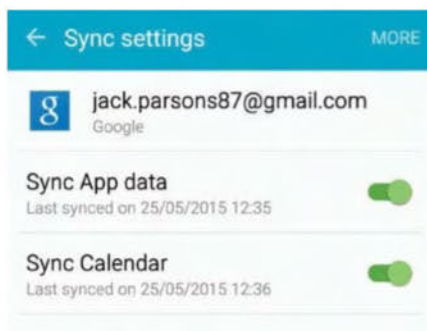
This tutorial shows you how to sync your various accounts as well as taking you through Dropbox, the wildly popular app that sends bulky files but also stores them so you can view them on any synced device. Dropbox is ideal for mobile devices as well as desktops.

## Dropbox | Share files between devices



### 1: Add an account

If your Galaxy phone or tablet runs Lollipop, swipe right for the Google Now page, press the hamburger menu and select Add Account. If your device is running on KitKat or earlier, go to Settings>Account>Add Account and enter your email and password.



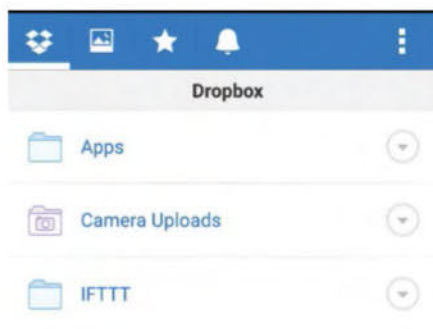
### 2: Sync your accounts

You'll be presented with the option to sync all of your accounts, such as app data, documents and your contacts. If there's anything you don't want to sync, you can just untick the box before pressing Next. Repeat with your other Galaxy devices to sync them all.



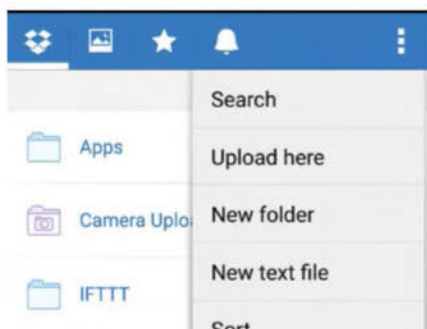
### 3: Install Dropbox

Now that all your email and phone accounts are synced, what do you do if you want to view files without sending them across manually? Go to the Google Play store and download Dropbox for all of your devices. You can download it for your PC as well.



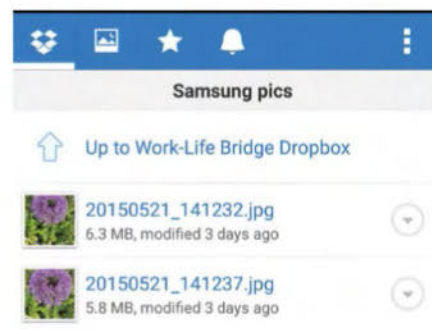
### 4: Set it up

As is usual with normal account syncing, once you've logged into the same account on all your various devices, you should be able to see all the files on the account. Upload a file on one device and you'll see it on the other. It might need refreshing to load.



### 5: Create a folder

If you need to transfer a number of files, you should create a folder in Dropbox. You can do this by pressing the lower-left button on your Android device and click Create Folder. Give it a title and click Create. Press and hold your file and move it into the folder.



### 6: View files

To view the files, just load up Dropbox on your other device and then click on the folder and the file that you want to view. As Dropbox gives you a rather generously large size limit, you can share anything from text files to whole movies quickly and easily!



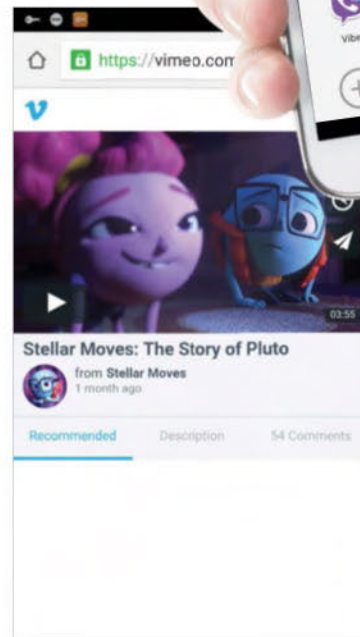
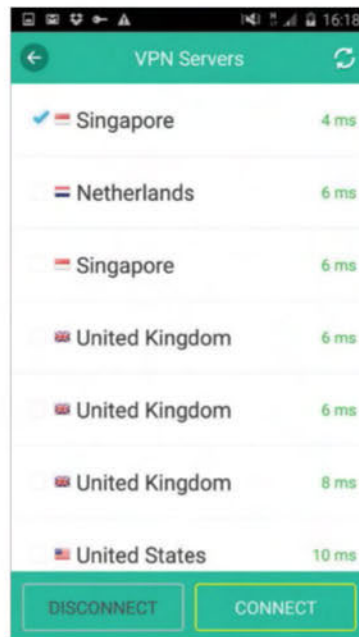
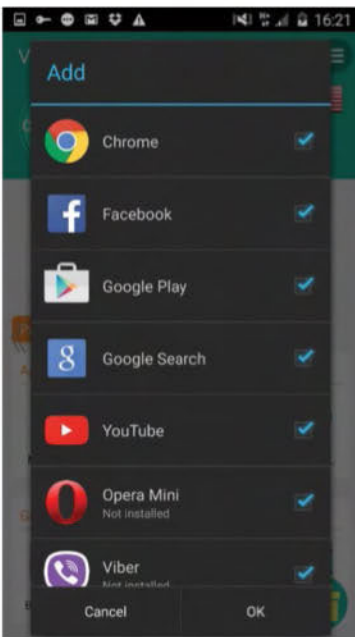
# Access regional content via VPN

## Unlock blocked videos and more by using a VPN service

VPN and proxy services are a bit of a grey area when it comes to their legality, but they're entirely safe and recommended to use in the correct manner for all Android users. No matter what country you live in, chances are you'll have come across some blocked content you want access to. For example, numerous news services around the world block access to certain

videos from people who live outside that service's home country.

However, using a VPN service can help mask your IP address and make it possible to watch any content you like from all over the world. So you can enjoy any content, without restrictions! Here's how to get one up and running.



**Left:** Select an app from the list provided to unlock it, or instead use the '+' symbol to choose a different app installed on your device

**Right:** Controls may be limited when accessing video content. Choose a different server if the content is simply not working, or not functioning properly

### 1. Download and install

Download the VPN Master app from the Google Play Store. When you first open up the app, you'll need to choose a country where you want your connection to be based. Although this doesn't make a whole lot of difference, you'll find the best connections are in countries closely located to where you live.

### 2. Unblock apps

The next screen asks you to select the apps you want to unblock using the VPN service (Fig 1). To access all video content, make sure to select the Chrome or YouTube app. If the app you want to unblock isn't listed, use the '+' symbol to select one from a

more comprehensive list. Not every app is available to use alongside a VPN service.

### 3. Start browsing

Use the app in question to search for what would previously be blocked content. For this example, we chose the Chrome app and pointed it to a website where content is usually blocked due to our location. Note that loading speeds can be slow at first, until the VPN gets up to speed.

### 4. Limited control

One of the drawbacks of using a VPN service is that you can be limited as to the control you have over some of the content (Fig 2). For example, certain videos

may restrict users to the bare minimum of playback controls, or simply won't load very well on particular devices. It's a good idea to try out the different servers from the first step in order to figure out which one best works for you.

### 5. Stay within limits

Once you're finished with the content you want to enjoy, back out of the app you were using to access it and open the notification panel (swipe down from the top left of the homescreen). Select the VPN Master listing to see an overview of how much data you used while browsing. VPN Master has a 1GB browsing limit before asking you to upgrade the app.

**Can I unblock content in my own country?**

Yes, on the very rare occasion that certain content is blocked within your own country, you can use a VPN service to gain access to it.

# Get nearly any paid app for free

How do you keep up with the latest apps without breaking the bank?

## The cheaper the app, the better right?

Unfortunately, this philosophy doesn't often apply to the latest apps and games, and if you like to be the first to play the latest games or enjoy the newest apps, there can be a heavy toll on your wallet.

So what's the answer? Well, the first place you should probably look is AppGratis, a service (with an associated newsletter) that presents a free version of a premium app or game every day, using information from Google Play and contact with app developers. While occasionally apps have heavy discounts, in most cases there is nothing to pay with the bonus of additional features not available in the standard release. The prospect of getting something useful for nothing should not be sniffed at, yet AppGratis is free!

Before you take a look at AppGratis or the other methods explained here, spend a few moments making a list of the premium apps you want. This will prove invaluable when it appears on AppGratis.

### Install an app

Tapping the Download FREE button will take you to Google Play, where you can go through the usual procedure to install the app. Should you be unhappy with it, don't worry. Just uninstall it in the usual way and forget about it

### Get more info

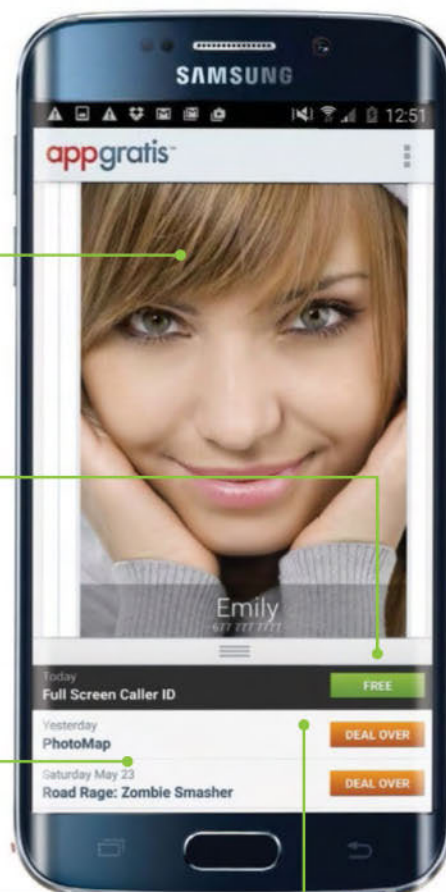
The AppGratis window displays everything you need to know about the current offer, from the description and a screenshot, to its usual price and name of the developer. If additional features are included, these are also listed here

### Disable alerts

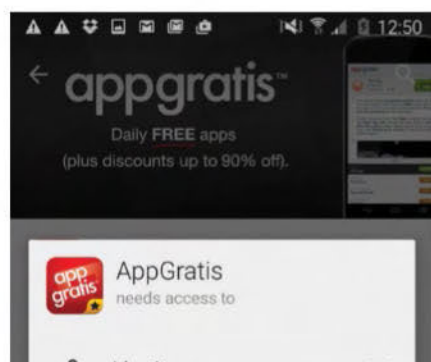
AppGratis by default has various alerts settings enabled. These can prove irritating, especially if you have subscribed to the daily emails, so use the Settings option to disable them. AppGratis still appears in the notification area daily

### Explore offers

AppGratis shows you details of the offers from previous days. Usually these offers will have expired, but in some cases they may still be available. Either way, it serves as a useful reminder of the quality of apps that are on offer



## AppGratis | Get free apps on your Galaxy



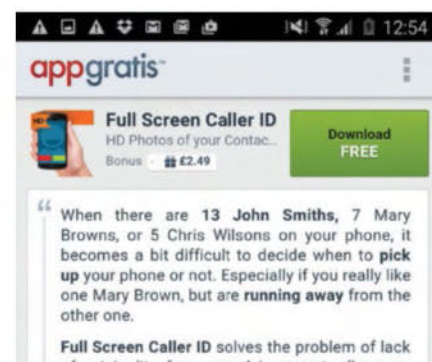
### 1: Install AppGratis

For instant alerts that the best apps have gone free, you will first need to install AppGratis on your phone. Free to download from the Google Play Store, all you need to do is search for the app by name, install the app and wait for the notifications to come through.



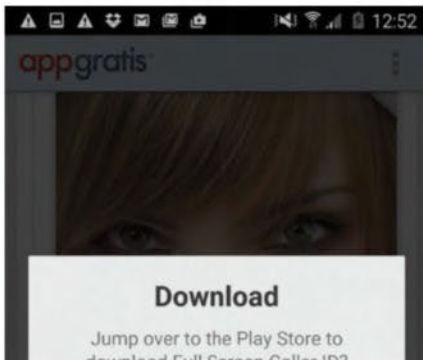
### 2: Review app deals

Not all apps will be of interest to you, so when you receive an alert from AppGratis, tap it to review the full details of the app. This won't take more than a minute to do and is worth the time so that you can discard the alert and wait for the next one which may be more useful.



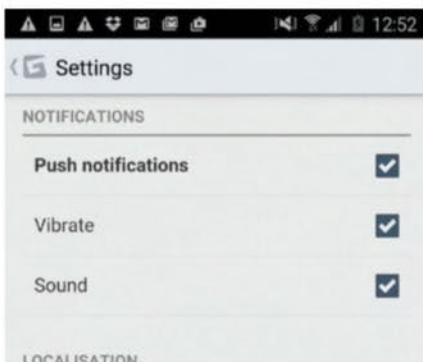
### 3: Get app details

When an app you've been waiting for appears, check the description to ensure it offers what you want. Often AppGratis deals are free versions of premium apps but without all the functionality. Sometimes you get additional features, so check what comes with the offer.



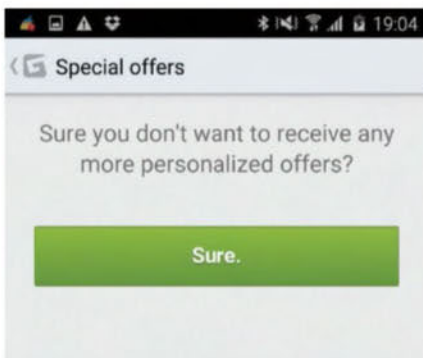
#### 4: Install discounted apps

If you're ready to install the app, tap the Download FREE button, then confirm by tapping 'Go!'. Google Play will open, so confirm the details one last time, tap the Install button and proceed.



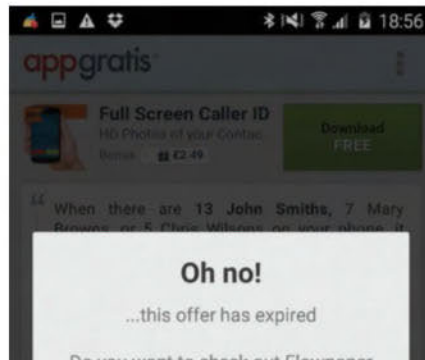
#### 6: Set alert options

The Settings features options to toggle push notifications, vibrations and sound. You may find disabling these options a good idea. Just tap the tickboxes to deselect the alert options.



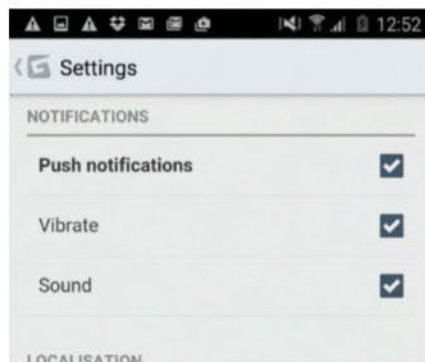
#### 8: View more offers

As you download apps, it learns what sort of apps you're interested in and offer you similar content. If these become samey, go to Settings and untick Special Offers to stop this process.



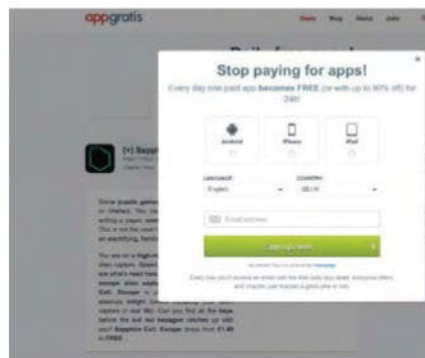
#### 5: Discover other apps

Even after apps are no longer on offer, App Gratis will continue to list apps for a few days. This is still a great way to discover new apps. Just tap Deal Over instead of FREE to view the app's store profile.



#### 7: Change Play Store

If App Gratis is sending you offers for apps that aren't available in your country's Play Store, check Settings, scroll down to Play Store, and tap to select your country.



#### 9: Get the newsletter

If push notifications are too intrusive, App Gratis also offers a daily email round up of apps gone free. Go to appgratis.com, select offers about Android apps, your country and enter your email address.

I've seen other apps like AppGratis, can I use those?



AppGratis' success has spawned a number of copycats but not all of these are satisfactory. We've used AppGratis extensively for a couple of months now and spent some of this time comparing it with some of those clones. The result of this seems to be that the clones are copying AppGratis' offers, with developers perhaps even using AppGratis updates to prompt their own apps to update with similar information. Obviously this is less than satisfactory, which is why we recommend you stick with AppGratis.

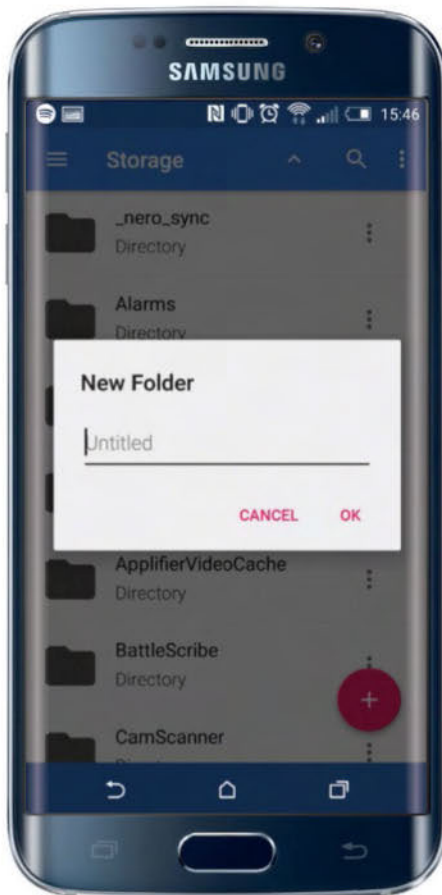
Couldn't I just pirate apps instead?

Put simply, no. While it may seem very tempting to avoid the usual system and get free apps the illegal way, it's not safe and could seriously endanger your Galaxy phone or tablet. Pirated apps present a significant Android malware threat and it is an offence to download copyrighted material. Apart from the usual legal and moral complications, pirated apps aren't regulated, and threatens your phone's security. All in all, this is a bad idea.



# Manage files without configuration

Use Cabinet Beta to easily manage files stored on your Galaxy device



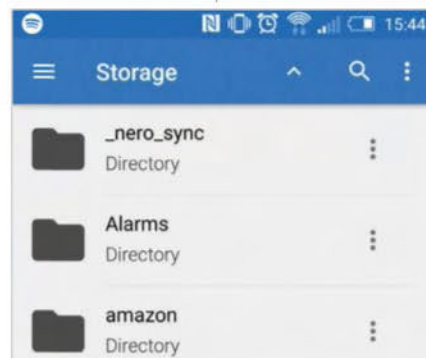
Sometimes setting up a file manager on your Android device can be a mammoth task, and by the time you've got it running you've forgotten why you installed it in the first place. And if that isn't a problem, then they're often painfully ugly apps that wouldn't look out of place on a PC from about 12 years ago. Cabinet Beta solves those two problems in one fell swoop.

First of all, it's a really good looking app that will fit nicely on any device running Lollipop and

second of all, it's a doddle to get up and running. In fact, all you need to do is install it and it will do the rest.

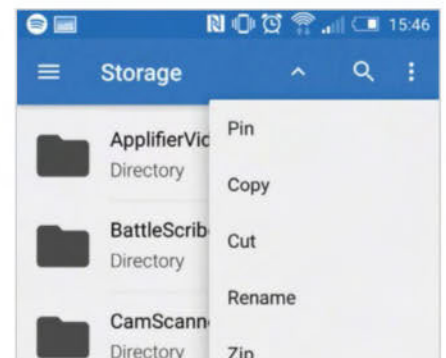
In this tutorial we'll show you what the different parts of the app do and talk you through some of the more interesting advanced functions that you might want to have a play with. Head to the Google Play store, download the app and when it's installed, head down to Step 1 to get started with managing your files.

## Cabinet Beta | Manage files



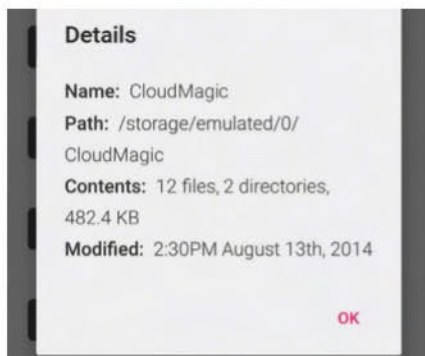
### 1: Access the main page

Once installed the app takes you through a tutorial to explain the user interface. When that's done you'll tap a button to take you to the main page. You'll see a list of all of the folders on your device.



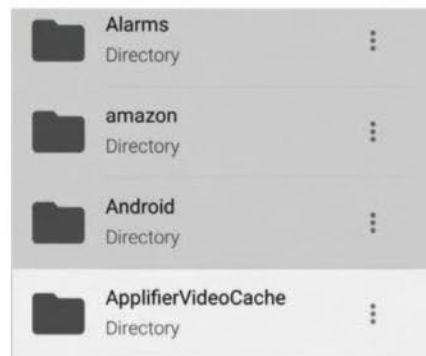
### 2: Use the menu button

You can tap on the three-dotted menu button next to the name of any file or folder to get more information and open up a list of options what to do with that file or folder. This is the easiest method for dealing with single items.



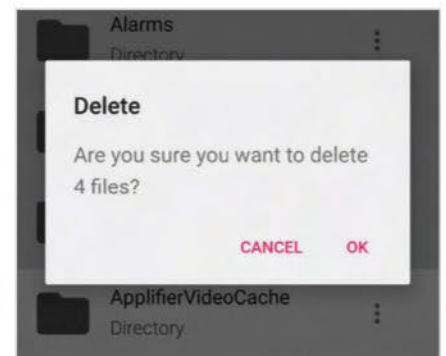
### 3: Find out more

You can find out the details of any file with a tap from this menu. The app will show you where the data is stored, how long it's been there and how much space it is taking up on your storage as well.



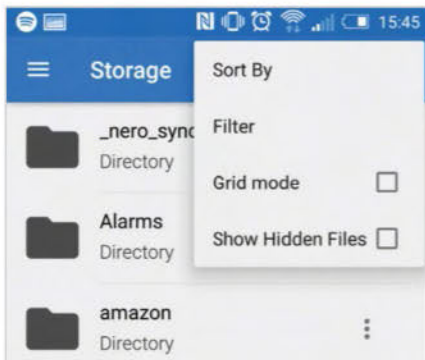
### 4: Select multiple files

To deal with more than one file, long-press on one. When the screen turns black you can tap other files or folders to add them. When you've picked them, you've got a couple options to choose from.



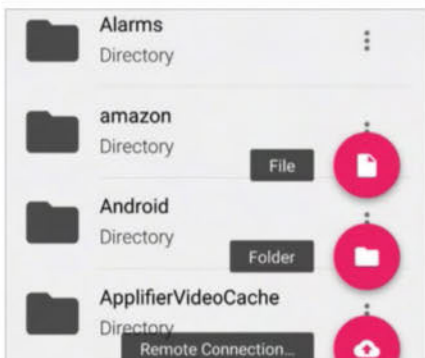
### 5: Manage selected files

Those options appear in the top right-hand corner. Tapping the bin deletes the files, tapping the overlapping icons copies them. The menu gives lets you cut, pin, ZIP and select all the files on show.



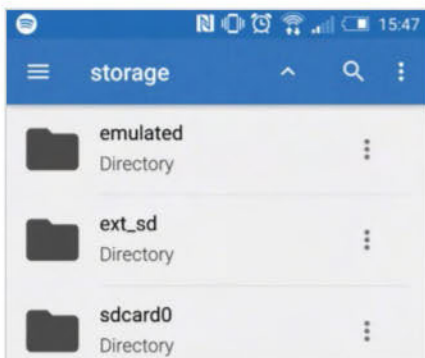
## 6: Rearrange them all

Tap the menu in the top-right, when you don't have files selected, to choose how files and folders are displayed. Select whichever one works best for you and then just give it a quick tap to set it up.



## 7: Select the pink cross

A pink button in the bottom-right opens another menu, to create new files, folders and connections. Tapping an option lets you quickly pop something into your file saving system.

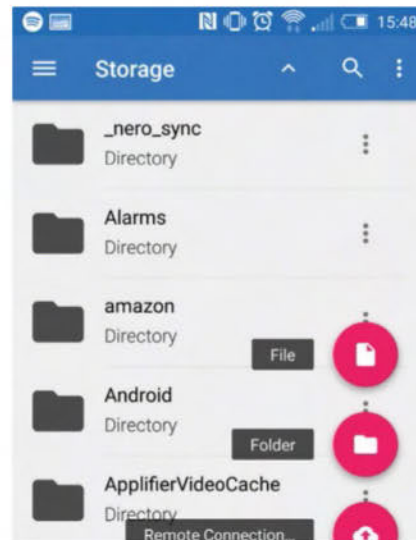


## 8: Take a step back

The arrow in the top bar lets you take a step back into parent folders. It's useful to get a better idea of how everything is stored and lets you quickly jump out of folders to the main list as well.

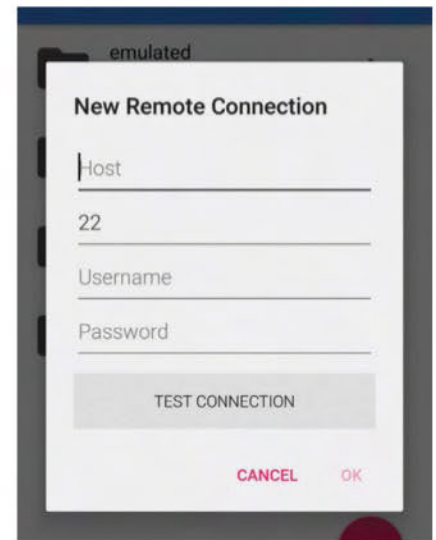
# Connect your phone to a network

You can quickly connect your Galaxy to an FTP network to collect files



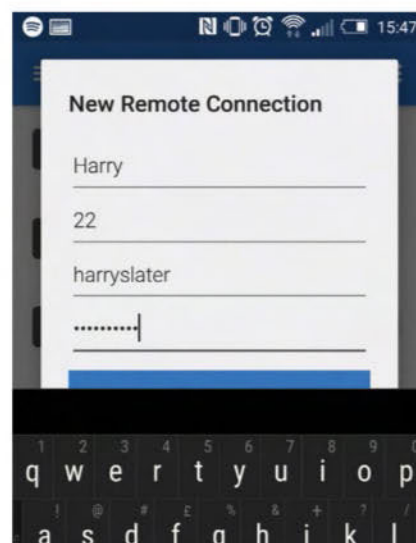
## 1: Tap the pink circle

Tap the pink circle to open the menu. The option Remote Connection is what you use to connect your phone to the server, so tap it. You'll now need the details of the connection you're making.



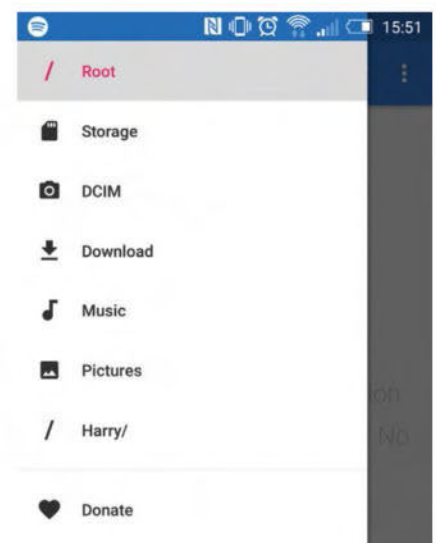
## 2: Add the details

You'll need to know the host of the SFTP server, and your username and password. Enter them in the spaces and tap Test Connection to see if everything is working in the way it should be.



## 3: If it goes wrong

If things haven't gone right, you'll see an error message replace the button. Try re-inputting the values. If you're sure everything's right, it might be the server. Check the settings there and try again.

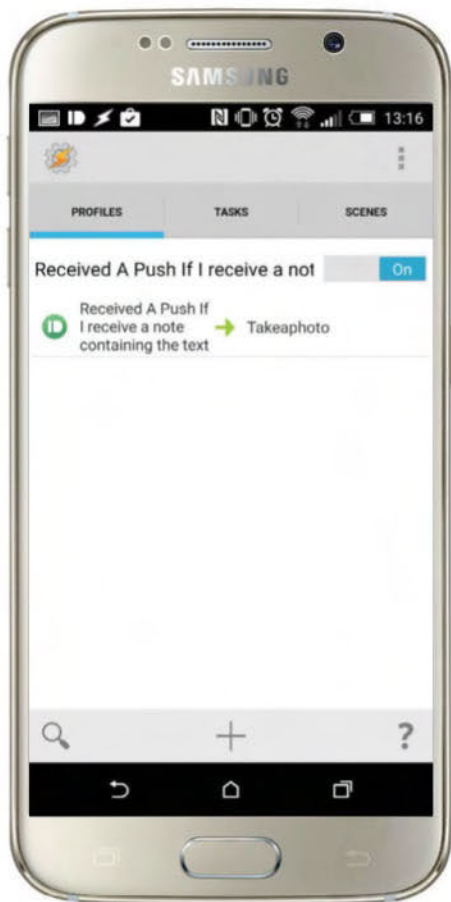


## 4: If it goes right

Your connection to the server is accessible by tapping the menu in the top left-hand. Look down through the list of file types and you should see it there. Tap it when you want to connect.

# Take photos remotely on your camera

Use the Pushbullet and Tasker apps to trigger the camera on your Galaxy



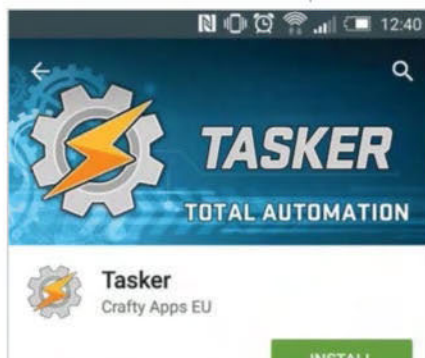
There are plenty of apps on the Play store that let you turn your Galaxy phone or tablet into a trigger for your DSLR camera, but if you're looking for something to trigger the camera on your Google-powered device, then the pickings are slimmer. But fret not, because in this tutorial we'll guide you through setting up a system that lets you take photos remotely.

You'll need a couple of Galaxy devices running Android, or an Android device and a PC running

Windows, and you will need a couple of apps installed too. But if you don't mind a little bit of faff, then you can set up a clever remote control in less than an hour.

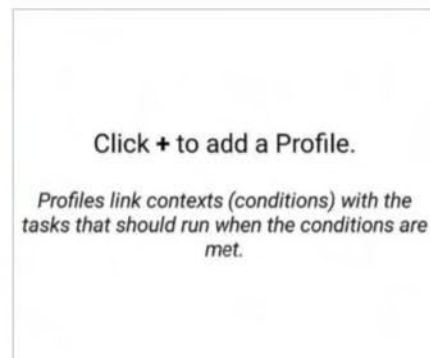
Here we'll guide you through getting everything set up, show you a few shortcuts that will save you some time in the long run, and give you a few quick tips to make sure that everything's running smoothly. When you're ready to go, head to the first step.

## Tasker + Pushbullet Trigger your camera



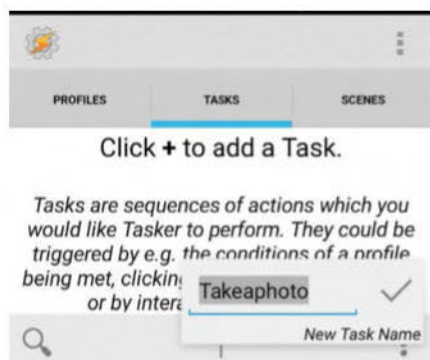
### 1: Get the apps

You need two apps and a few devices. Download Tasker and Pushbullet onto one device, and then install Pushbullet on the second. You can use a PC, too. Pushbullet is free, Tasker is £2.99/\$2.99.



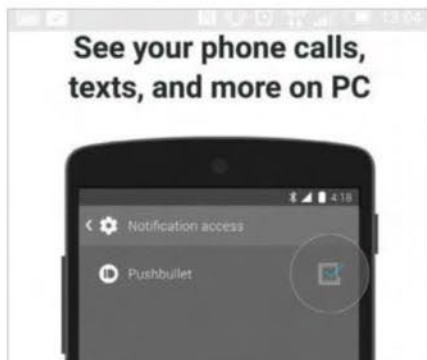
### 2: Go to Tasker

On the phone that you want to take the photo, you have to create a couple of tasks. One to capture the photo and one as a remote trigger. For the photos, go to the tasks panel and tap on the + button.



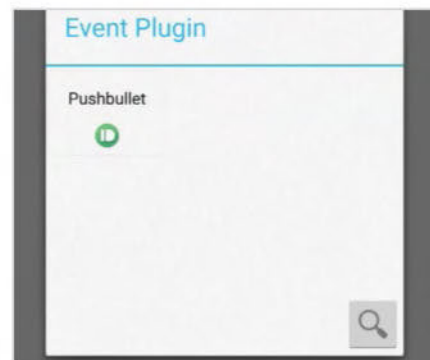
### 3: Set the snap

Name the task and tap the + button to add an action. Tap Media and Take Photo in the bottom-right. Set a filename and change the Naming Sequence to Series or Chronological. Hit Back.



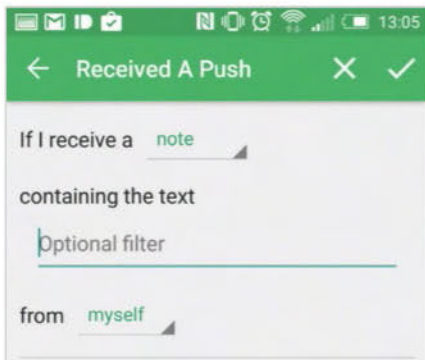
### 4: Check the bullet

Next create a separate profile in Tasker that uses the photo task we just created. First, make sure you've got Pushbullet set up and installed, and that you've given it access to everything that it needs access to.



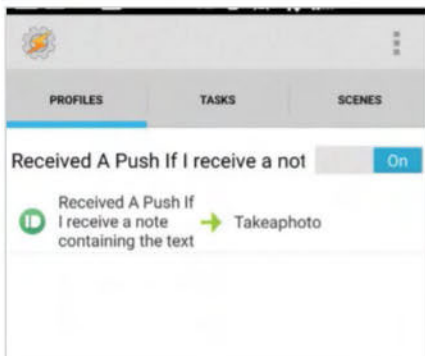
### 5: Make the profile

Go to the profile of Tasker and tap the + button to add a new one. Create an event. Out of the list of possible events, tap plug-ins, then tap on Pushbullet. Now tap the pencil button to configure.



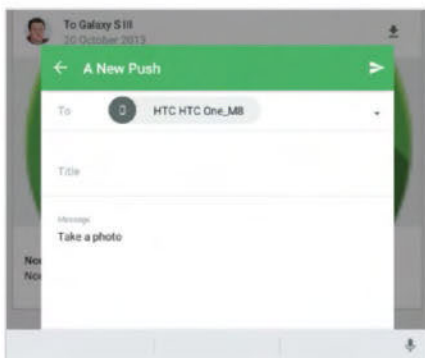
## 6: Choose the text

Now you need to pick some text to trigger your camera, like 'take a photo'. Also, set the push to dismiss once it's arrived too. Tap the tick to save the changes to be taken to the configuration page.



## 7: Attach the action

You need to attach the action we created at the start to the profile. When you've pushed back you'll get a drop-down list of tasks. Pick the one you made earlier. You're done with this device for now.

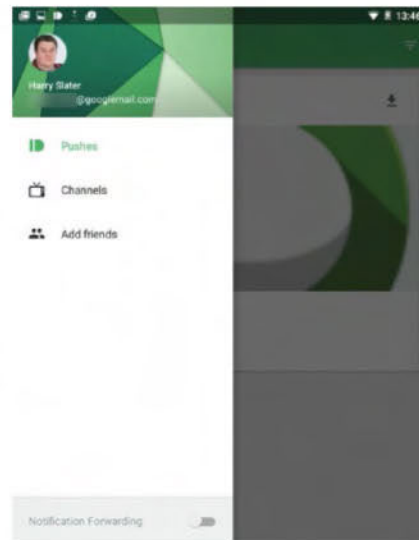


## 8: Get the other one

On your other Android device, use Pushbullet to send a note to the first one with the text you set as the trigger. You should have just used one device to tell another to take a snap. It's as simple as that!

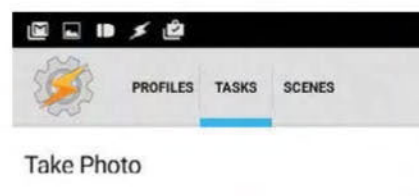
# Set up a button with Tasker

Create a button on your second Android device so you don't have to send the same message over and over again



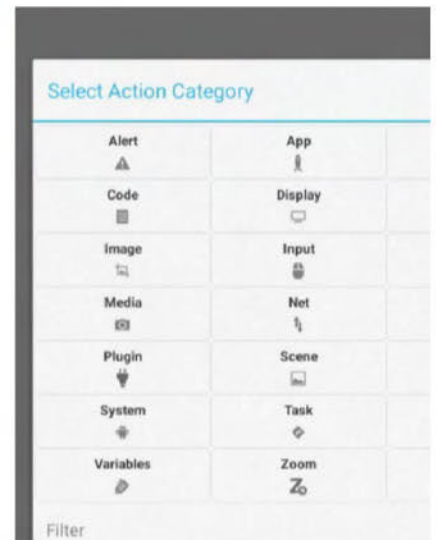
## 1: Download and install Tasker

Download Tasker on your second device. Once installed, head to Tasks and tap the + button. Tap Plugin, then Pushbullet to create a new task. Now tap on the pencil icon in the top-right.



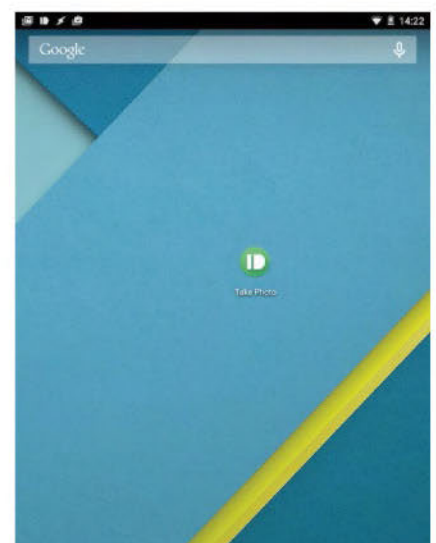
## 3: Save and back out

After saving, go out of Tasker, making sure it's closed. Add a widget on your home. When asked which task to set it to, select the one you created. You now have a one-touch remote photo button.



## 2: Configure the message

Configure the message your button is going to send. Select the device you want to send it to from the menu, and insert the text you selected in the earlier tutorial.



## 4: Set an icon

Set an icon to display the widget, and the name of the task you assign will be displayed below. Use something memorable, and avoid using the Pushbullet icon as it's really easy to get confused.



# Create your own Instagram filters

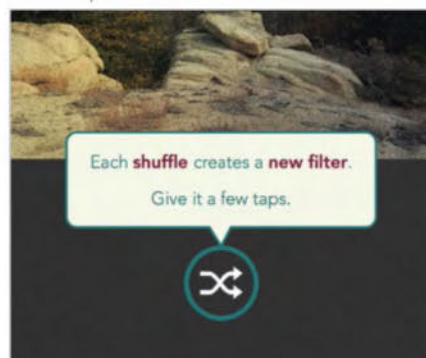
Bored with Brannan? Annoyed with Earlybird? Make your custom photo effects instead



Creating a stunning photo is as much about composition and shape, as it is about getting the filter right. Since Instagram, smartphone cameras have been able to compete with DSLRs, while adding filters in post-processing.

But if you use Instagram or any of its rivals, what you're getting from the filters is what someone else wants you to have. These curated filters are fine for beginners, but don't cover every eventuality. How could they, there are more than 24 types of photo!

## Shift | Create your own filter

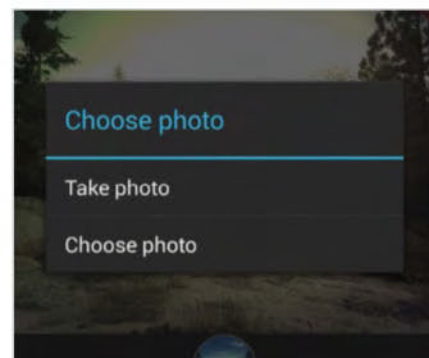


### 1: Get to grips with Shift

Shift is free from Google Play, with adds. A 65p in-app purchase will remove these. Upon launch you'll see a demo of the shuffle feature. You can learn a bit more about the app at [shiftbypixite.com](http://shiftbypixite.com).

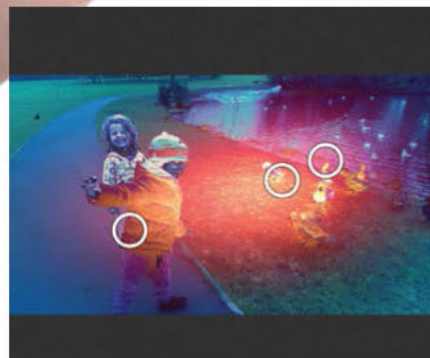
The solution is to create your own filters on a photo-by-photo basis, something made possible with Shift, a free app that offers textures, blends and colours that can be combined to create stunning results, then saved and reused on other photos you might want to edit.

Shift also features a random shuffle and three touch points where the custom filter can be created, so you can let your creativity run free and get editing.



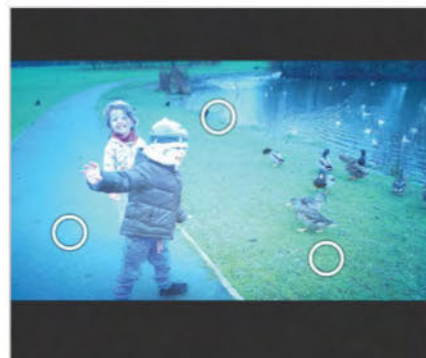
### 2: Begin editing photos

Before you create a custom filter with Shift you'll need a photo. Tap Choose photo and select Take photo, or Choose photo to browse your Galaxy's gallery for a suitable image to start with.



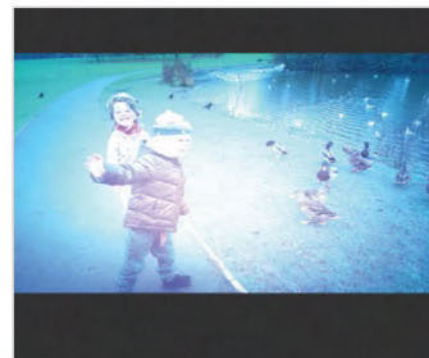
### 3: Shuffle for filters

If you're looking for a striking look but don't have the time to start from scratch, use Shuffle with the two-headed button to move the pinch points around, applying a different filter effect each time.



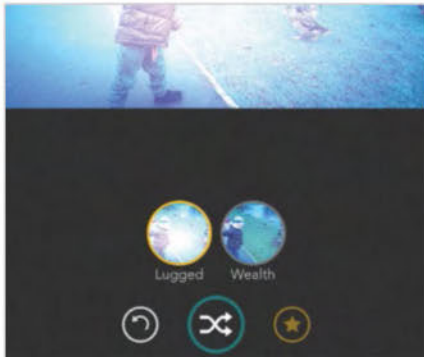
### 4: Place your pinch points

To create a filter, position the pinch points. Drag them individually, or move a group by tap-and-holding the two outer points. Pinch the points to resize them, affecting depth and concentration.



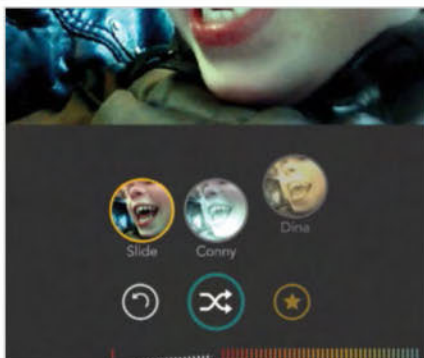
### 5: Creating your filter

Filters are created by adjusting the sliders at the bottom. Adjust the strength of the filter on the left, apply colours on the right. Combined with the position of the points, create remarkable effects.



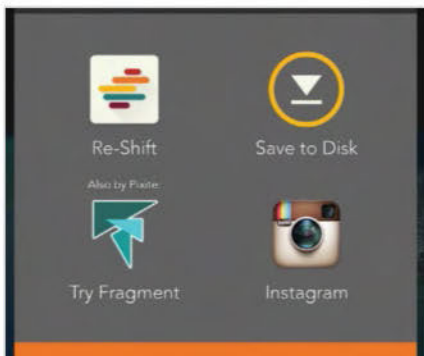
## 6: Save your custom filter

When you're happy, tap the star button to save the filter. A name will be given to the filter, along with a small preview. As filters are created they're added to the bottom where they can be scrolled through.



## 7: Delete and rearrange

The undo button discards changes you made, but you can also discard a filter completely by swiping it upwards. If you use a filter regularly, you can rearrange the list. Tap, hold and drag to reorder.

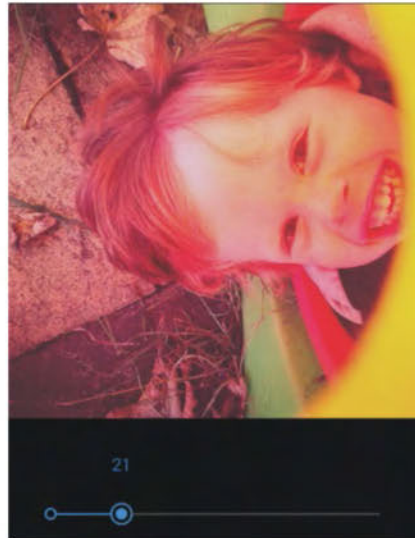


## 8: Share to Instagram

Tap Share to send the image to Instagram, here you can perform the usual crops and edits and then share with your network. You can set a filter, which is probably overkill, so just use Normal.

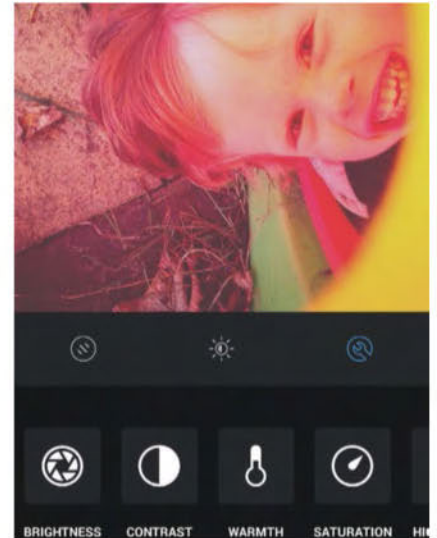
# Post-processing in Instagram

Despite the various filters in Instagram, modest edits to images are possible using Lux mode and other features



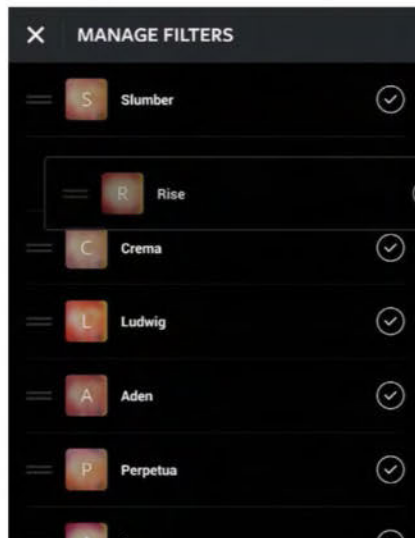
## 1: Edit images with Lux

After opening an image in Instagram, select Lux – the middle button below the preview. Drag the slider to adjust the setting and when satisfied, tap the tick. This is a subtle adjustment.



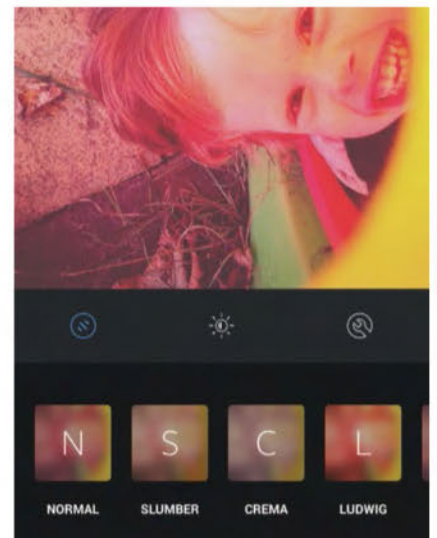
## 2: More filter edits

Instagram offers a tools menu, with Brightness, Contrast, Warmth, Saturation, Highlights, Shadows and Sharpen, and advanced options like Tilt Shift and Vignette. Use these for striking results.



## 3: Manage filters

You'll use some Instagram filters more than others. To save time scrolling, open the Manage Filters screen at the end of the filters list to drag filters into your preferred order, or toggle them off/on.



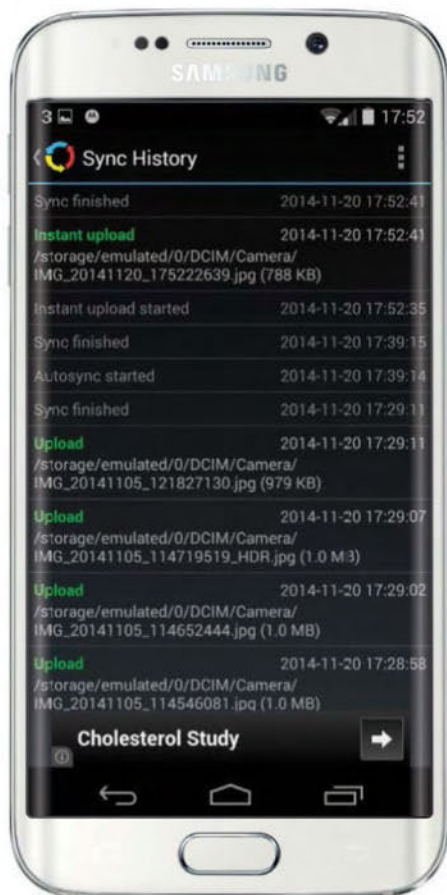
## 4: When to mix filters

As mentioned, creating a new filter in Shift and importing the image into Instagram is unwise as the results can be disappointing. Successful filter mixing is possible, but only with trial and error.



# Sync your photos to Google Drive

Use Yonomi to connect all of your smart devices with the same app



The concept of synchronising our mobile devices is a familiar one; indeed, most of us routinely sync content like emails and address books. This way, all of this valuable information is automatically copied to cloud-based storage. Then, should catastrophe strike and that device is lost or stolen, the content isn't lost. Furthermore, if you have several devices – perhaps a smartphone, a tablet and a laptop – that data can be accessed from any of them.

Android extends synchronisation to also permit photos to be uploaded to the cloud, shortly after you've taken them, for safe keeping. By default, those photos are synced to Google+, which isn't necessarily what you would expect or prefer. Several third party apps allow your photos to be uploaded to alternative online storage. Here we look at Autosync for Google Drive which, as the name suggests, provides synchronisation with your Google Drive account.

## Yonomi | Sync photos across devices

- 1 Select Local Folder**  
Any folder in device storage or SD card you want to sync with Google Drive
- 2 Select Google Drive Folder**  
The folder in Google Drive you want to sync the local folder with
- 3 Choose Sync Method**  
How do you want to sync? Two-way? Upload only? Download only?

Please grant Drive Autosync access to Google Drive

[Connect to Google Drive](#)

Connect to Google Drive using bedfordmd50@googlemail.com

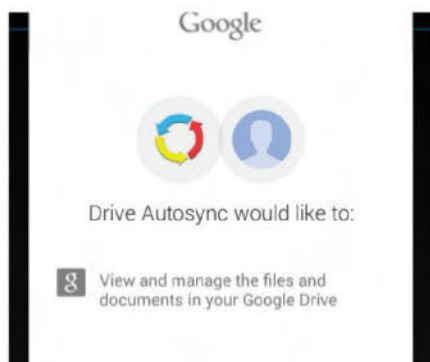
[Click here to select another account.](#)

### 1: Getting started

Install Autosync for Google Drive and start it up. It'll appear under the name of Drive Autosync. The app tells you the three steps needed to start, which we'll explain here. Select 'Let's Do It' to get started.

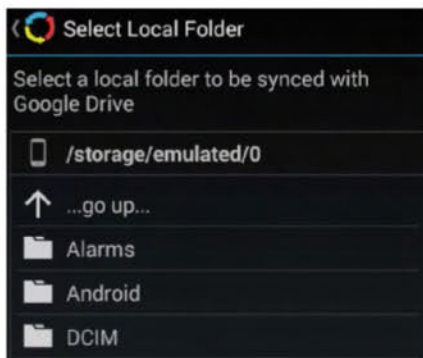
### 2: Grant access to Drive

You'll be asked to grant permission for the app to access Drive using the account indicated. If you prefer a different account, follow the link at the bottom. Then select 'Connect to Google Drive'.



### 3: Allow it to manage files

You'll be asked for permission for the app to view and manage files and documents in your Google Drive account. You'll be warned of the implications and, as long as you're happy, select OK to continue.



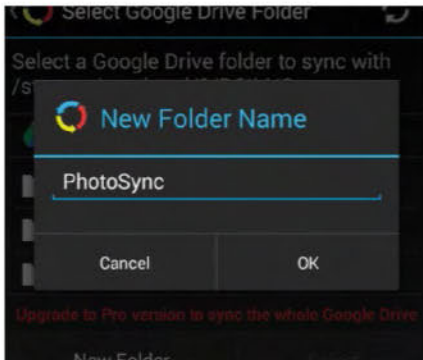
### 4: Select a local folder

You'll be asked which folder you want to sync with Google Drive. Though you can sync any folder, to sync your photos as you take them in KitKat, select DCIM and Camera before choosing Select.



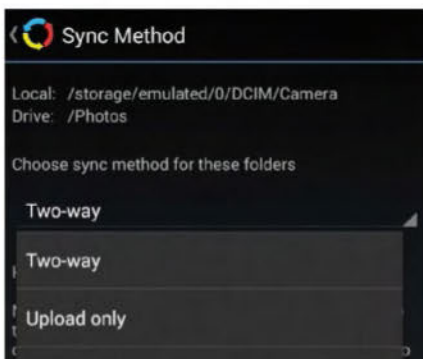
### 5: Select a Drive folder

Next, decide which of the folders in your Drive you want to sync with the folder you specified. All the folders are listed so just choose your preferred folder and then pick Select.



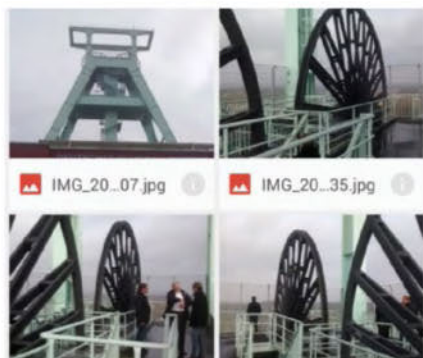
## 6: Create new Drive folder

To create a new Drive folder to sync with your device, select New Folder. Enter a name and tap OK. You'll be asked to select a folder, but your new folder will now be listed, so choose it.



## 8: Alternative methods

For other methods available, touch Two-way and a menu will list other sync methods. For details, select one for a full description of how it works. When you've made your choice, select Next.



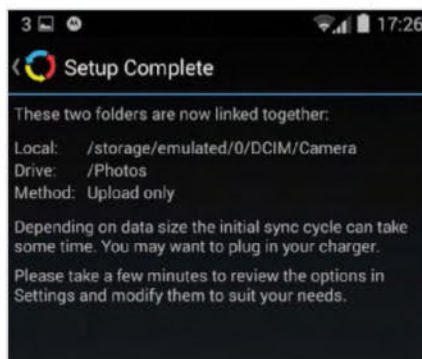
## 11: See your photos online

You might want to double-check your photos really uploaded. You can do that by going to drive.google.com in a browser or by using the Drive app. You'll see your photos safely stored in the cloud.



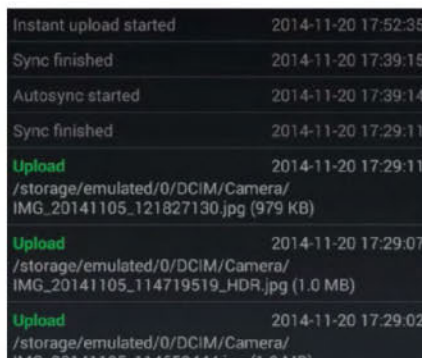
## 7: Choose a sync method

Now select the sync method. There are seven methods available, and each is fully described. You'll notice that the workings of the default method, Two-way, are already explained on-screen.



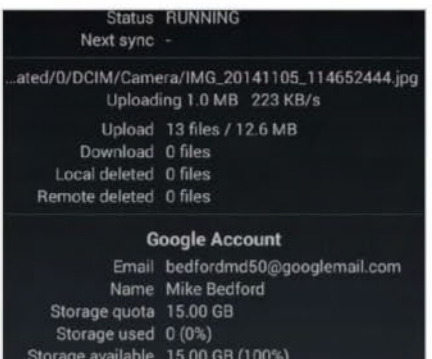
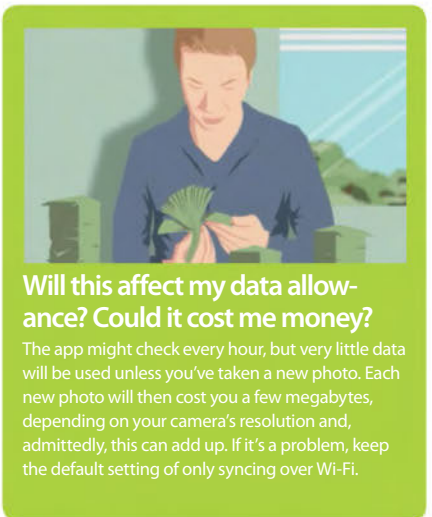
## 9: Setup is complete

When the setup is complete, your chosen options are summarised. Check it out and if you're not happy, exit and restart the app to choose different options. Otherwise, just select Done.



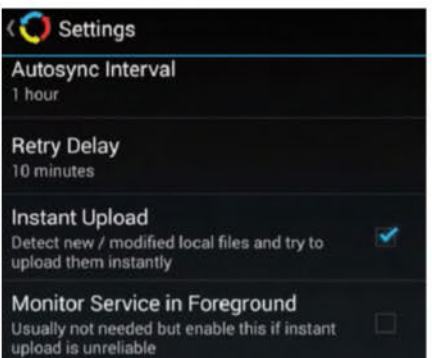
## 12: View sync history

Back in Autosync for Google Drive, to see what's been uploaded or downloaded, touch the menu icon and select Sync History to see when each sync started and finished, and which files transferred.



## 10: Syncing in progress

Syncing will now start, if you have a Wi-Fi connection, and you can follow progress on the status screen. The first sync might take a few minutes, but later syncs should be much quicker.



## 13: Fine-tune the options

Autosync for Google Drive offers lots of other options. Go to the Settings screen and you'll see plenty of scope for fine-tuning its operation. Review and alter the settings to meet your needs.



# Save YouTube videos offline

Get to grips with YouTube's latest music subscription service, Music Key

YouTube Music Key isn't the catchiest name, but with Play Music, Google owns one of the most comprehensive subscription services.

Although some users won't appreciate having to pay out for another service, if you purchase either a Music Key or Play Music licence, you get the other one completely free, making it a very tempting deal. Apart from having access to millions of music videos, Music Key finally adds some of the most requested features that have been previously missing - including both background and offline listening

Background listening makes it easy to do other things on your phone while still listening to YouTube. The offline option where users can download their favourite tracks and listen on the go. Both of these features alone are worth forking out for the service. In this tutorial we will be guiding you through YouTube Master Key, from setting it up to making the the most of the service's brilliant suite of features. To begin, purchase YouTube Music Key in the app or from [youtube.com/musickey](http://youtube.com/musickey).

## Offline support

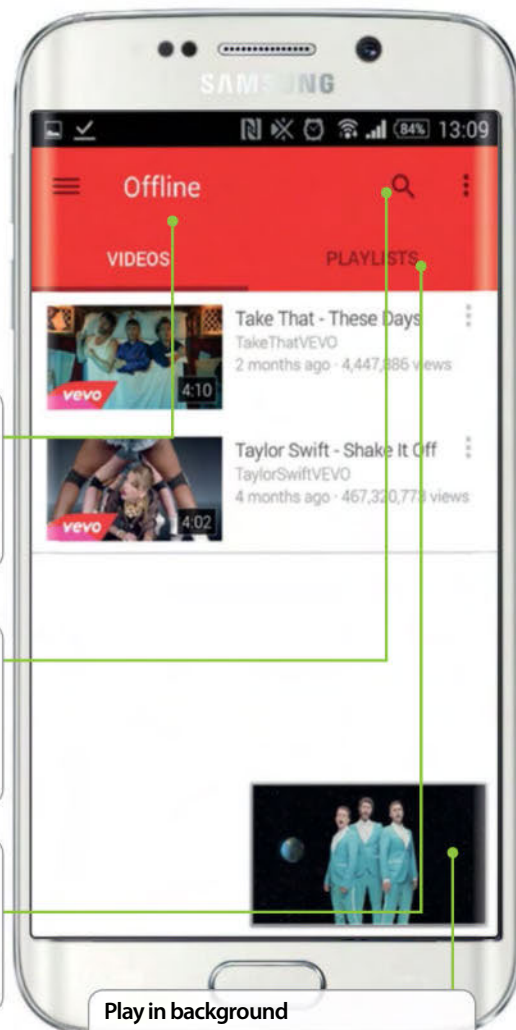
Every time you download a new song for offline use, it will automatically be added to the Offline menu. If you want to remove a track from your offline list, then press the Option key next to the video and select the remove option

## Search

If you're anything like us, you'll be using the Offline feature frequently. To make it easier to find a song you've added to the Offline menu, use the search icon at the top of the app to find what you need

## Download playlists

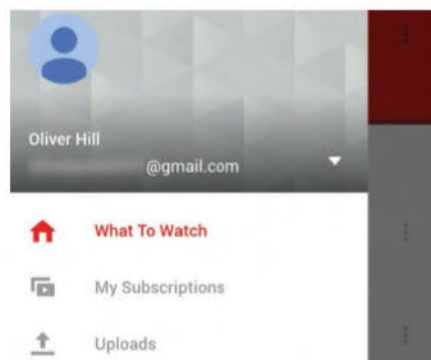
If you've created your own series of YouTube playlists, Music Key also enables you to take them offline. Within the Offline section of Music Key, press on the Playlists option to see which videos you can choose to download



## Play in background

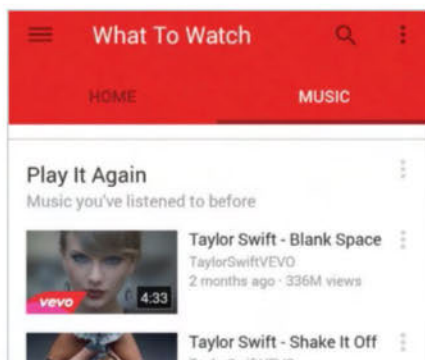
Once you've opened a music video and then backed out of it, a small thumbnail of it will appear in the bottom right of your screen. The music will still play and even if you leave the app entirely, you'll find the video in your Notifications menu

## Refresh your phone | Get a new launcher



### 1: Update and log in

Download the latest version of the YouTube app from the Google Play store and proceed to log in to your YouTube account. If you've correctly purchased Music Key, you should now see the Offline option enabled within the side menu. Head to the app's home screen once completed.



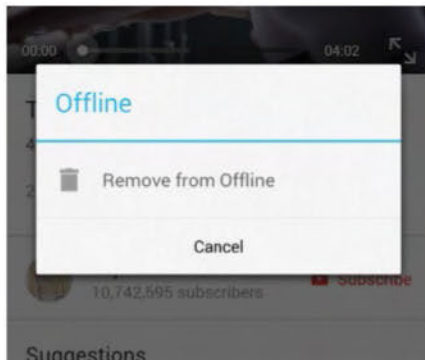
### 2: Switch to Music

By default, you'll be shown the subscriptions screen and an overview of some videos to catch up on. Instead of this menu, select the Music tab near the top of the app. When you use this option for the first time, you may find it takes a few seconds to finish loading.



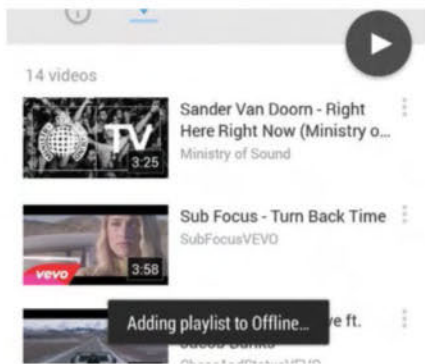
### 3: Load a video

Open any music video of your choice and you'll find a couple of new things to look at. First, you will see the ad-free logo to notify you that no ads are included with this video. Then, to the right is a download icon so you can add the video to your offline playlist.



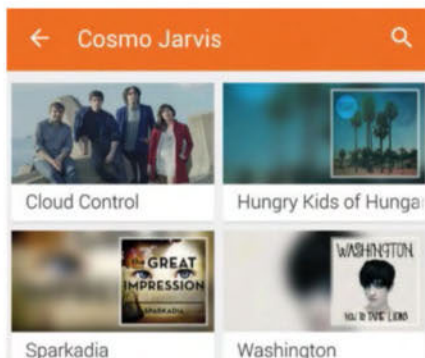
#### 4: Add to Offline

Press the Download icon to add the video to your offline playlist. If you want to back out of the download, press the icon again and select the 'Remove from Offline' option.



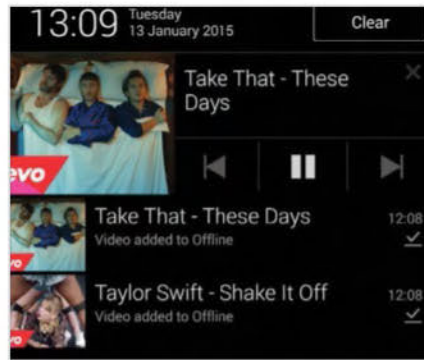
#### 6: Create offline playlists

After you've downloaded songs, go to the Music tab and scroll down for Playlists. Select a playlist and choose the download icon. Adding playlists to your offline menu takes longer than single tracks.



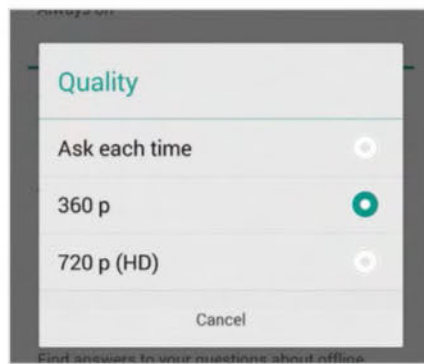
#### 8: Link to Play Music

As you get a free Play Music account with Music Key, it's worth using it. When listening to an artist in Play Music, scroll to the bottom of their page, and you can load up the music video in Music Key.



#### 5: Monitor progress

Open your notifications menu to monitor several key areas. See all of the items added to your Offline menu, and the Music Key video that's currently being played in the background on your device.



#### 7: Adjust quality

If the video quality isn't cutting it for you, head to the Music tab and open the settings. Select Quality and choose the 720p option. Your background and offline videos will now be played in HD.



#### 9: Correct accounts

If you're worried that none of the above options appeared for you, make sure you're signed into the correct account. If you've purchased a subscription on the wrong account, it's easy enough to switch.

## How many songs can I add to the Offline menu?



In essence, as many as your device's internal storage can hold. But it's important to remember that clogging up your phone with too many media files will cause some significant slowdown in other areas of your device. Try to be as selective as possible with the videos you do decide to download.

## Can I download non-music videos?



Yes, it's possible to download any video using Music Key's Offline function. Simply follow the same steps as before to take any video you want with you on the go.



# Monitor your device's memory

Check your storage space and SD card activity with StorageTrac

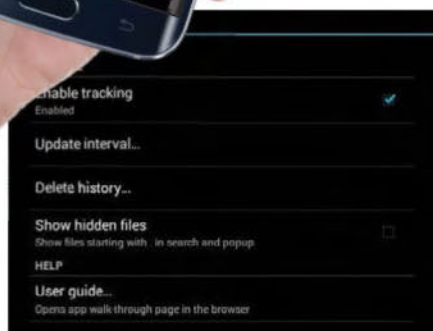
What have you got stored on your phone? Chances are you have all of your photos stored there, possibly a few videos, as well as all of your apps and games.

For most of us, unless we manually check the capacity from time to time, storage – whether on internal and/or external microSD cards – tends to run out of space with little or no warning. Especially on budget device with only a 16GB or less memory, it can end up being filled

up pretty quickly, with no native Android audit. With StorageTrac, you can keep tabs on this information. The app records file creation, modification and deletion on the storage card and collects data to present in a chart.

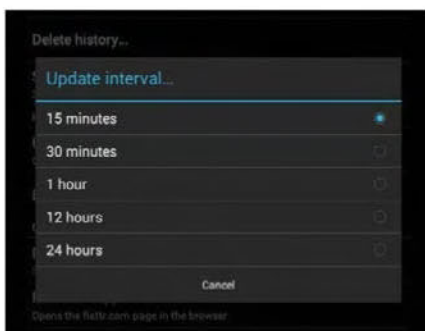
The result is an app that can show you how often your storage is accessed. This can prove useful for seeing how much storage is being used, and how long an external microSD card might last.

**StorageTrac** | Keep tabs on your memory



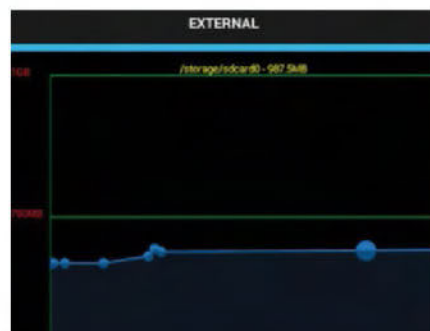
## 1: Enable tracking

StorageTrac will need permission from you to track your SD card storage status. Open the app, tap Menu > Settings and then Enable Tracking. Once enabled, you'll need to be using the app for a few days – a few hours at least – to get the best results from it.



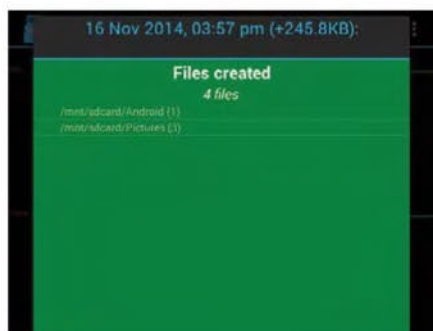
## 2: Set the update interval

Based on what info you want to collect over a specific period of time, you should also set an Update Interval. This can be anything from 15 minutes to 24 hours. By knowing what the interval is, shown on the chart, collected data will make more sense.



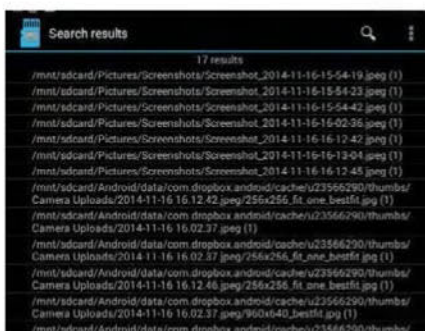
## 3: View storage tracking

The main screen features the plotted chart based on the amount of data you add and remove from your internal storage. StorageTrac works with your Galaxy device's SD card, too. Use the Day/Week/Month/Year menu in the top left to change the view to whichever you prefer.



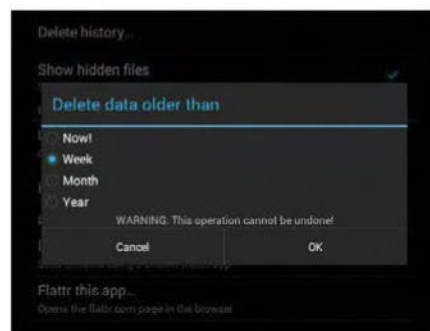
## 4: View file activity

To find out just what is being recorded, and when, you can tap the chart to view info about whatever period you might be interested in. The first screen lists all files that have been created at that point. You can scroll right to see any relevant deleted or modified files.



## 5: Search for specific files

The StorageTrac app features a handy search tool to track the activity of particular file types. For instance, to check how many JPEG images have been saved to your device, tap Search and enter 'jpeg' in the box. The results show where the files can be found.



## 6: Delete old data

To reduce StorageTrac's load on your Galaxy device's memory, you should consider using the 'Delete history...' option in the Settings menu. Four options – Now!, Week, Month and Year – can be selected; tap OK to confirm. Once cleared, tracking logs cannot be restored.



# Track down your stolen device

Use the Android Device Manager to pinpoint your lost device

If you've spent hundreds of pounds on a new or second-hand Android device, it's a horrible feeling to discover that it's been either stolen or lost. Although you should still report the loss at your local police station, there are steps you can take to at least remotely control and wipe your device. Android 5.0 has these features baked in, but if your device can't update to Lollipop, the Android Device Manager app is just as good. It can instantly track down the location of your lost device, whereupon you can perform a series of actions to retrieve it, or wipe your personal data and render it useless if it has been stolen. Follow the steps outlined below to correctly set up the Android Device Manager.

**"Instantly track down the location of your lost Galaxy device"**

**Get more from ADM** | Discover additional features

## Switch accounts

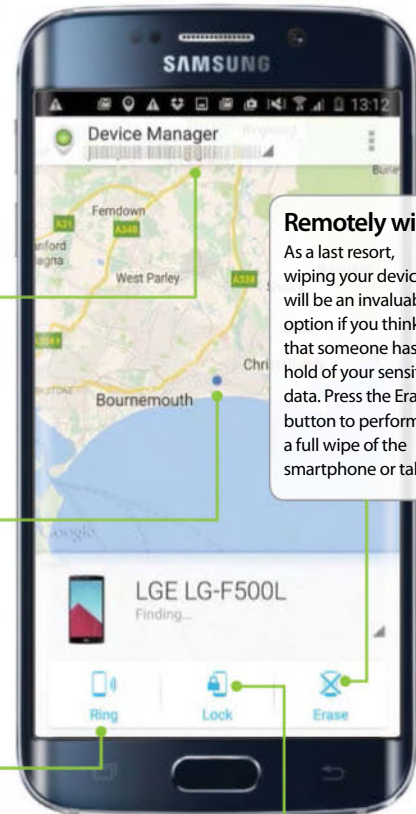
If you're wondering why your device isn't being listed on the map, make sure that you're using the correct Gmail account. Use the drop-down menu at the top of the app to switch between different Gmail accounts

## Pinpoint accuracy

The Maps section of ADM will show you the exact location of your device. Although it refreshes every few minutes, you can simply back out and go back into the app to see an updated version of the location

## Ring away

If the map indicates that your device is close by, the first option you'll want to go to is the Ring one. This will cause the device to ring for five minutes non-stop so that you can simply listen out for it in your local area and hopefully find it

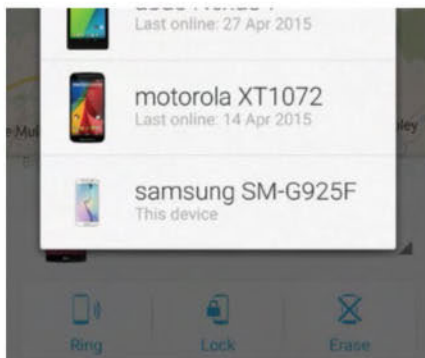


## Remotely wipe

As a last resort, wiping your device will be an invaluable option if you think that someone has got hold of your sensitive data. Press the Erase button to perform a full wipe of the smartphone or tablet

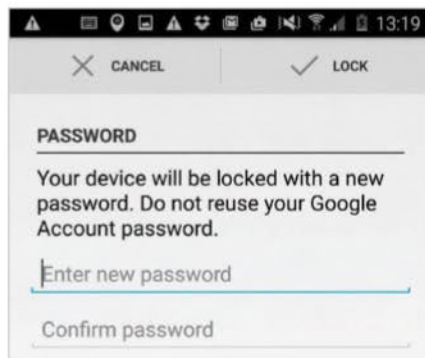
## Go to lock

Locking your device can be vital if you believe someone has managed to get their hands on it. Locking it will require you to set up a new password or PIN, which the thief will need to know to have access to your files



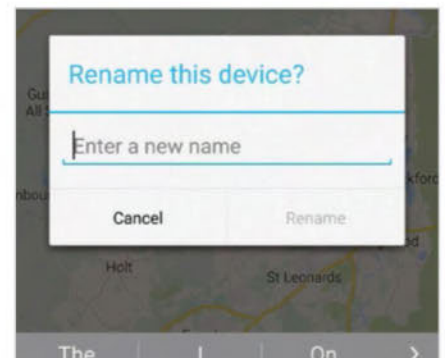
### 1: Switch devices

You might have more than one Samsung Galaxy device, such as a tablet. The Android Device Manager app is linked in with your Gmail account, so it's possible to link any additional devices you may own to it. Use the arrow next to the device name to switch between devices.



### 2: Lock to recover

When you set a new password for your Galaxy device, you should always make sure to add a separate recovery message. This could provide details for someone to contact you if they find the phone. Obviously, don't add any sensitive data in case that person is a thief who stole your device.



### 3: Set a new name

If you're in the situation where you've got multiple devices of the same model, say if you have black and a white Samsung Galaxy Tab, make sure to add unique names to them to differentiate between them. This makes it a lot easier to track down a certain device in the future.



# Create your own private picture vault

Ensure your photos and videos remain private

Do you have photos on your phone or tablet that you don't want others to see? KeepSafe Vault promises to help keep them safe from prying eyes, in case anyone should borrow, steal or find your device. When you move videos or photos into KeepSafe, they disappear from your Samsung Galaxy device's Gallery, so the only way to access them is in KeepSafe.

There are several ways of making your KeepSafe content more secure. For example, you can add a password to each KeepSafe album. You can also disguise KeepSafe as an app that scans your system and reports any problems. This means that even if someone is snooping around your device, they won't immediately suspect KeepSafe contains private photos and videos. Similarly, you can create a decoy version of KeepSafe you launch by entering a fake PIN.

KeepSafe doesn't require root access and is free to download from Google Play. However, buying a subscription unlocks some extra features that could come in handy.

## Add a new album

To create a new album, tap the '+' icon. Give your album a name and then tap OK. To change where this album appears on the main KeepSafe screen, long-press on it and then drag it to your preferred position in the list.

## Album settings

For every album besides the 'Main Folder,' you can change the name and cover photo, delete the album completely, or add an extra protection by applying a password. To access these, tap the three-dots menu icon next to each album.

## Put photos in vault

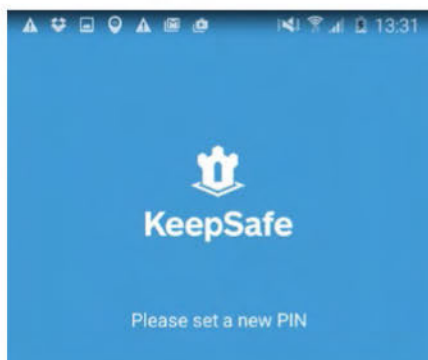
To move photos out of Gallery and into KeepSafe, tap the Import Photos icon towards the bottom of the screen. Then, tap all the images you want to move and select Hide. KeepSafe will then move all of these images into its default 'Main Folder'.

## Take new shots

You can take photos from inside KeepSafe, so they're immediately stored inside. Tap the Camera icon and use the on-screen controls for the flash and zoom as required. Once finished, return to the main screen by tapping Done.

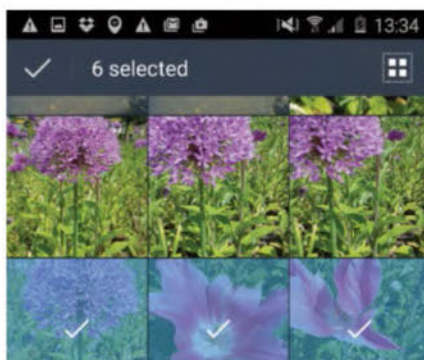


## KeepSafe | Create a safe picture vault



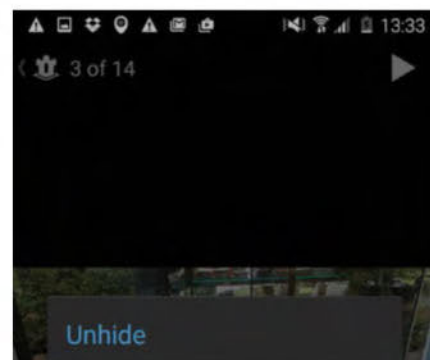
### 1: Create your PIN

When you first launch KeepSafe, you're asked to create a PIN. Enter a four-digit code, tap OK and then re-enter your PIN. If you forget your PIN, you can recover your account via email, so enter your address and tap Enable. KeepSafe will then send a verification email to this address.



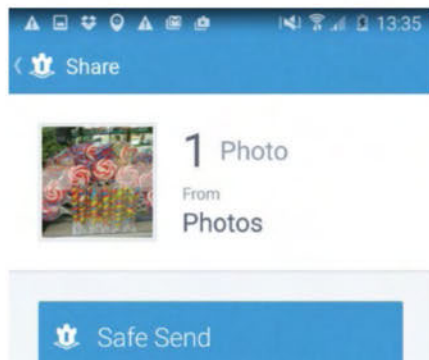
### 2: Hide your photos

Enter the code from your verification email into KeepSafe and tap Submit. KeepSafe already contains a default album, but you can create more by tapping the '+' symbol. To add photos to an album, open that album and tap the Import Photos icon. Select your photos and then tap Hide.



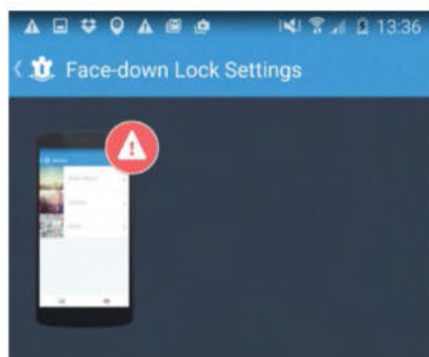
### 3: Un-hide your photos

In order to move photos out of KeepSafe so they reappear in your device's Gallery, find the photo in question and give it a tap so it appears fullscreen. Then, tap the Unhide icon and confirm that you want to move this image out of KeepSafe, by tapping OK.



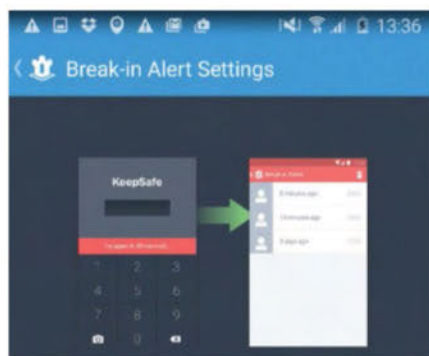
#### 4: Share photos securely

You can use KeepSafe to share photos so that the recipient can view them for 20 seconds only. Make sure the photo is stored in KeepSafe, then tap the photo. Tap Share and choose a channel.



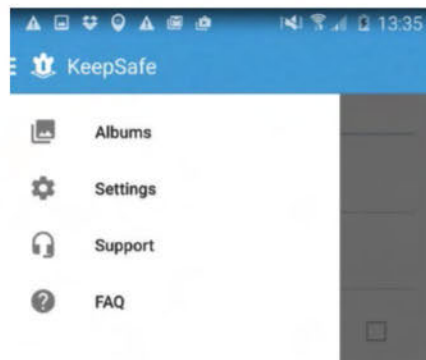
#### 6: Auto-lock KeepSafe

To quickly lock KeepSafe, enable Face-down Lock so the app locks when you flip your device upside down. The Settings contain Pro features, to access via a free 14-day trial – to start it, tap a Pro feature.



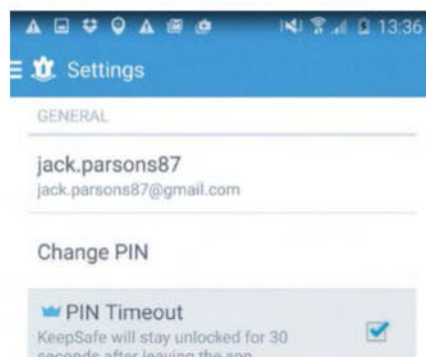
#### 8: Break-in Alerts

Break-in Alerts is also a Pro feature. When enabled, KeepSafe automatically takes a photo during an invalid PIN. After three failed attempts, the PIN pad is disabled for a bit. Tap Break-in Alerts and Enable.



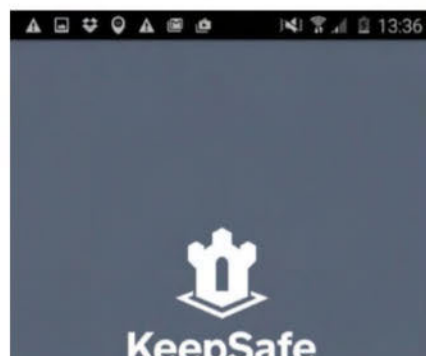
#### 5: Settings menu

On KeepSafe's main screen, tap the icon at the top left, then Settings for admin tasks such as changing the email address, and your PIN. You can access extra KeepSafe options, covered in the next steps.



#### 7: PIN Timeout

One Pro feature is PIN Timeout, so KeepSafe is unlocked for 30 seconds, perfect if you're fed up of re-entering your PIN every time your device goes to sleep or you accidentally exit KeepSafe.



#### 9: KeepSafe in disguise

To disguise KeepSafe as a system-scanning app, enable Secret Door. Now, launching KeepSafe will display that the system scan is complete. For the real app, long-press on the KeepSafe logo.

## What happens to my photos and videos if I uninstall KeepSafe?

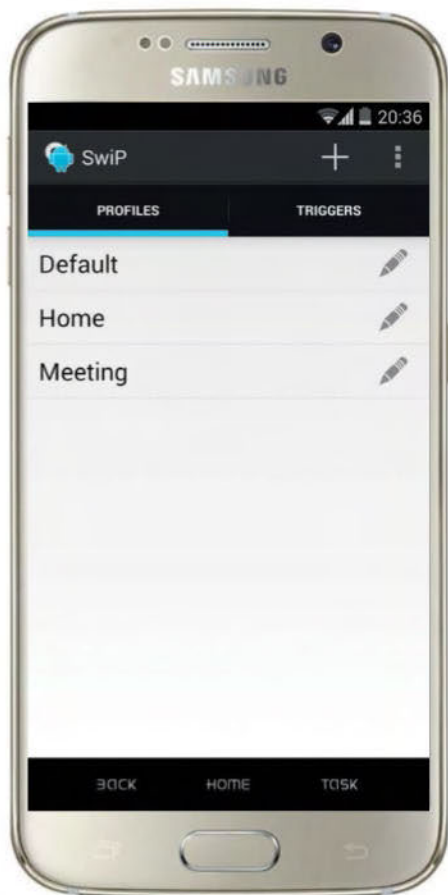
The contents of your KeepSafe account are associated with your email address you used to sign up. This means that if you uninstall KeepSafe from your device, you can always recover your content at a later date if you wish by reinstalling the app and logging in with your original email address. In this way, it works in a similar way as cloud storage.

## How do I stop KeepSafe from copying hidden photos/videos to Private Cloud?

Private Cloud is the key to syncing KeepSafe content across all your devices. Backing up your content to Private Cloud also means that if your Android smartphone or tablet breaks, you won't lose all the photos and videos in your KeepSafe account. However, if you don't want to back up your content to Private Cloud, you can disable this sync by opening KeepSafe's Settings and deselecting Enable Private Cloud.

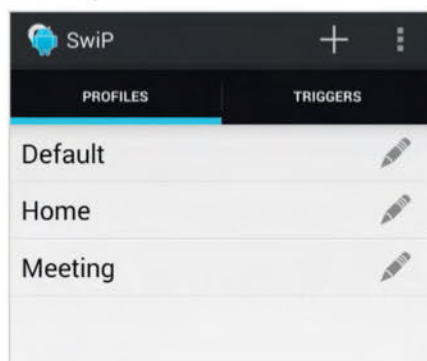
# Automate your Android phone with SwiP

Create trigger-based profiles for popular Android tasks, with this open source automation app



Do you find yourself performing the same tasks, over and over again on your Android phone? It may be time try a task automation app for those tasks. You can use these apps to create profiles of your most commonly used settings, for example a Home profile where your device automatically connects to your home Wi-Fi. Profiles are triggered automatically when certain conditions are met, for example when your Android device's GPS detects that you're at home.

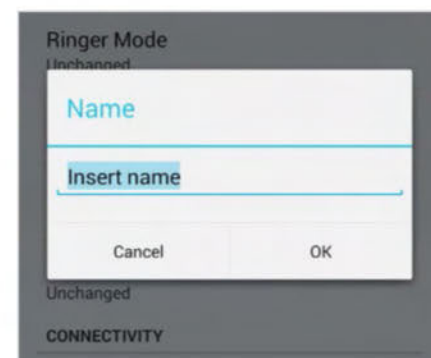
## SwiP | Automate your Galaxy



### 1: Time to interact

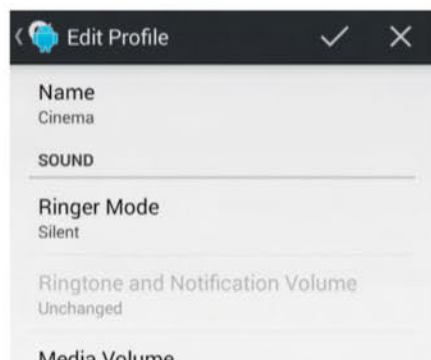
Take a closer look at the three example profiles by tapping their pencil icons. The next screen contains all the options to enable, disable or tweak in this profile. To edit, tap an option for a pop-up.

We featured some of the biggest names in automation on page nine, but SwiP is a new release that provides an open source alternative. This means the app's source code is publicly available, so anyone can help develop it. You can download SwiP for free from the Play store, which also contains a link to the app's source code. SwiP doesn't require root, although you can access additional functionality on a rooted device. SwiP currently doesn't work on tablets.



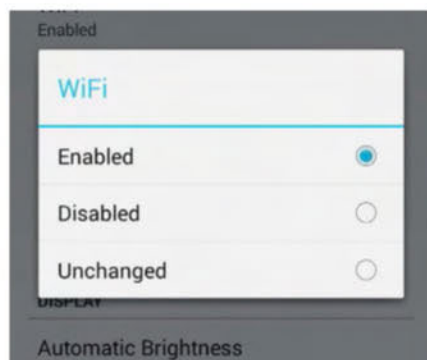
### 2: Manage your apps

To apply a sample profile, return to the main SwiP menu and tap the name of the profile that you want to activate. The next step is to create a custom profile. Tap '+' in the toolbar and name it.



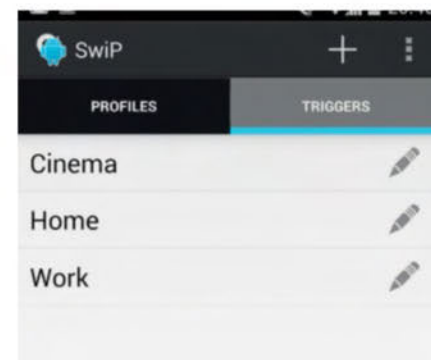
### 3: Play some media

By default, every option is set to 'Unchanged', so applying the profile won't affect this item's current state. Work through this menu, tapping and changing all the options you want to update.



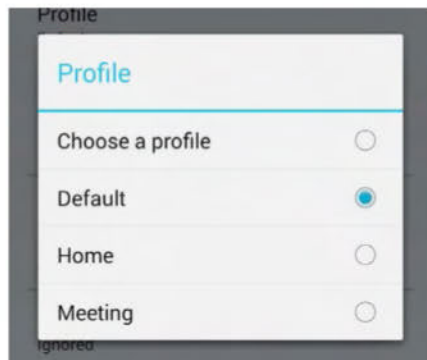
### 4: Enhance your web browsing

This menu is split into sections: Sounds, Display, Connectivity, etc. In Connectivity, for instance, you can specify whether mobile data, Wi-Fi and Bluetooth are enabled.



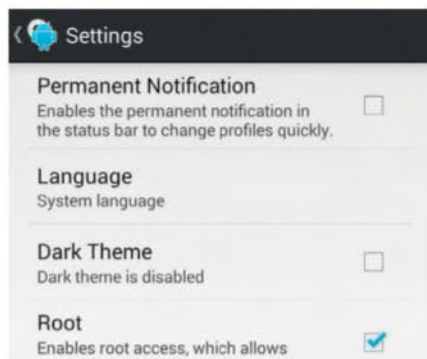
### 5: Tweak the settings

Save your profile by tapping the tick icon. You can manually activate this profile, or create triggers. A trigger activates its assigned profile in certain conditions. Tap Triggers in the toolbar, then '+'



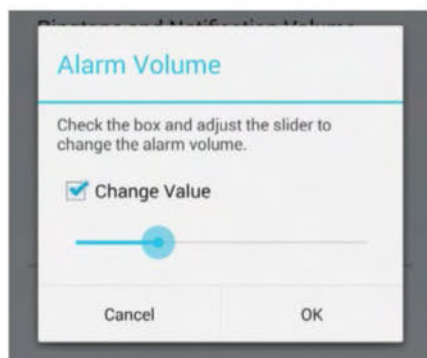
## 6: A useful icon

Give your trigger a name and tap every option in the menu you want to edit. You must assign every trigger to a profile, so tap Profile to choose one. When a trigger's conditions are met, it will activate.



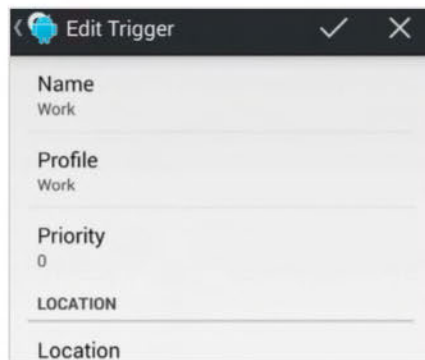
## 8: Connected at last

Before you can use Location in your triggers, you need to give SwiP root access and install it as a system app. Tap the three-dots menu icon, tap Settings, then Root and 'Install as a system-app.'



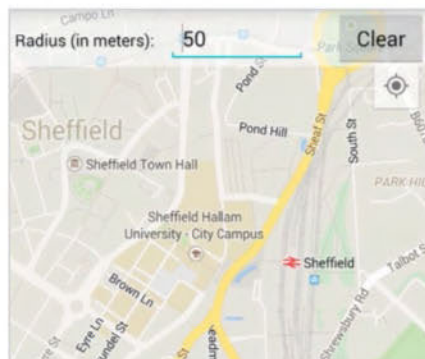
## 11: Play some media

Forgot to turn your alarm off at the weekend? Create a profile that turns Alarm Volume to 0, then link it to a trigger for the weekend. Or automatically turn the volume back up on Monday morning.



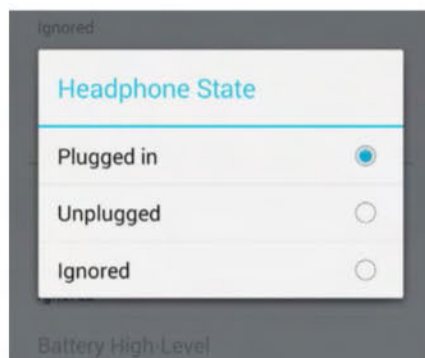
## 7: Set up your server

For triggers that activate Home and Work profiles based on the time/day, you need to edit Start Time, End Time and Weekday options. You can also create location-dependent profiles using GPS.



## 9: Time to interact

For a location-based trigger, tap Location, find the location you want and long-press it for a marker. Specify your location's radius with the Radius field. Save this location by tapping the tick icon.



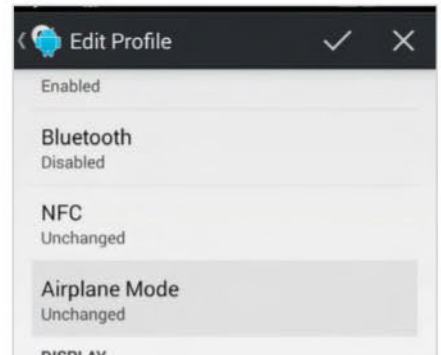
## 12: Enhance your web browsing

You may want to use SwiP to change the media volume when you plug headphones in. Create a profile with the correct Media Volume, create a trigger, tap Headphone and select 'Plugged in.'

## What are some quality alternatives to SwiP?

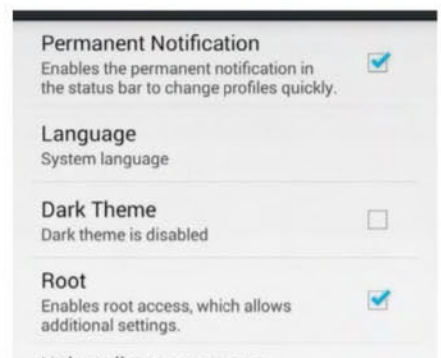
If you feel that SwiP isn't for you or find the user interface too confusing, Trigger is a beginner-friendly automation app that's a brilliant alternative to the more complicated SwiP. It guides you every single step of the way towards automating your Samsung Galaxy device, and comes with some useful examples you can build for yourself. However, you will need to purchase Trigger Pro to access most of its features.

Alternatively, if you are looking for location-based automation for your Samsung Galaxy, the oddly named Llama app is worth checking out. This app uses phone masts to find out where you are, and can change your ringer, ringtone and vibrations setting depending on where you are and/or the time of day. You can download both apps for free from Google Play.



## 10: Manage your apps

Once you've granted root access, you can start enabling/disabling Airplane Mode and temporarily bypassing your device's lockscreen, which you should only do when it's safe, like at home.



## 13: Tweak the settings

If you have profiles you switch between manually, you can add a permanent SwiP notification to your panel to take you to your list. Add it in SwiP's Settings by selecting Permanent Notification.



# Restore deleted files and photos

Add a recycle bin to your device before permanently removing files

We've all been in the situation where a simple misplaced finger can accidentally delete an important file or photo that we actually really need – it's annoying but it does happen.

Unfortunately for Galaxy users, there's no simple workaround for restoring your deleted files on Android and instead you'll need to venture on to the Google Play Store to find a suitable third-party solution to help fix the problem. Luckily, there are many available.

We recommend the Dumpster app, which acts as a gatekeeper for all your deleted files before they permanently vanish from your device. It works in the same vein as a desktop PC's recycle bin feature, where the user can restore the files they need or choose to permanently remove them for good. In this tutorial, we'll guide you through the process of correctly configuring the Dumpster app to safely store and manage your deleted files, photos and other specific types of documents so that you can choose what to do with them before they disappear forever.

## Put in order

If you're handling multiple files at the same time, use the sorting system at the top right of the app. Here you can choose to put your files in order of their size, date created and other options

## Where are they?

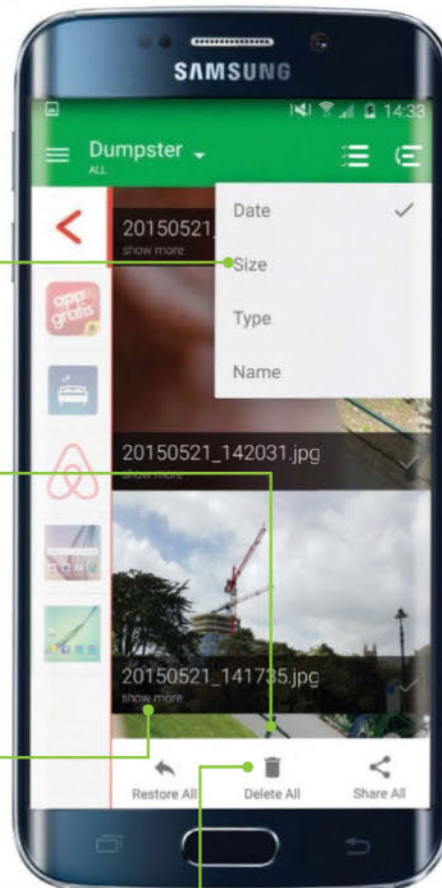
Near the bottom of the screen you'll be able to see the current location of your deleted files. If you want to take a closer look at the file or photo before you permanently remove it, go to the designated folder

## Choose to restore

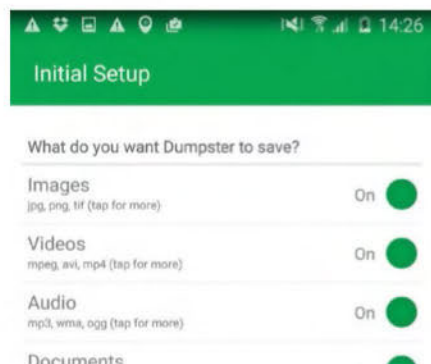
If you've made a mistake and want to restore the files to their folders, press on the Restore All button. If you want to only restore a specific file, uncheck the box next to the file's name

## Permanently delete

To remove the selected photos completely from your device, press on the Delete All button. A small notification will then appear to let you know when they've been completely removed

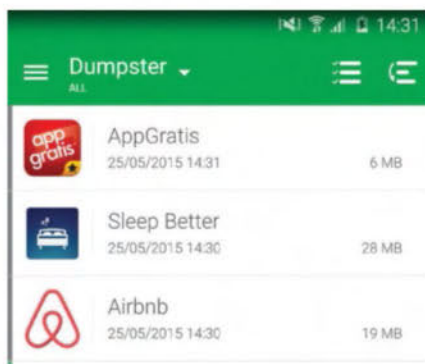


## Dumpster | Keep deleted files safe



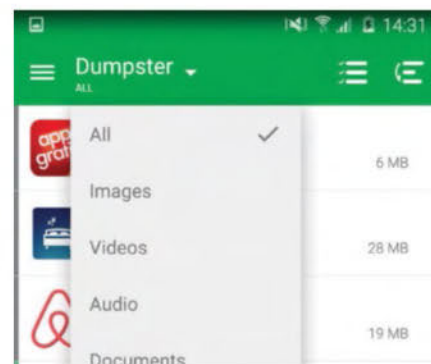
### 1: What to save?

When you first open up the Dumpster app, you'll need to select the types of files you want it to save. Go through the list and toggle each one off and on until you've made all your choices. Once done, press on the Next button at the bottom of the screen to continue.



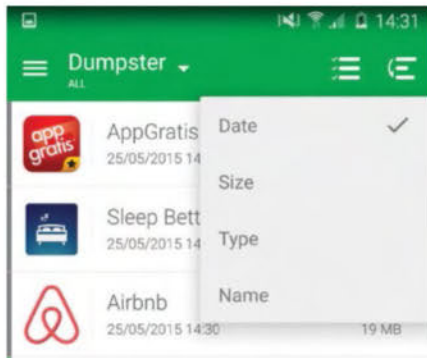
### 2: Your deleted files

You will now be taken to the overview screen where you can see all of the previously deleted files and apps that have been saved within Dumpster. Files will be grouped into specific folders, with the size of each folder shown on the right-hand side of the screen.



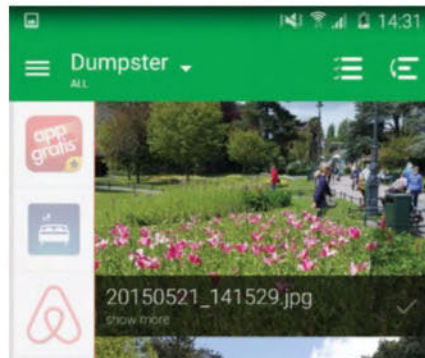
### 3: Sort through files

If you've got a long list of files and folders stored in Dumpster, use the drop-down menu to filter between the types of folders and files. This is a great solution if you want to find a specific file. Select the type of file you want to focus on, so that you can more easily find the one(s) you want.



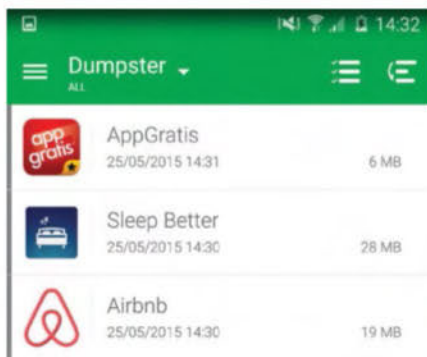
#### 4: Filter even further

You can use the category system at the top right of the screen to sort your files by date, size, type or name. Once you've located the file you're looking for, press on it to take a closer look.



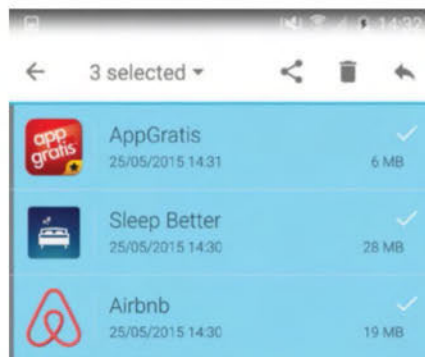
#### 5: Get an overview

You now have a variety of options. At the bottom you will find restore and delete options – just above you'll find details of the image or file. Press on the Restore All option that's provided.



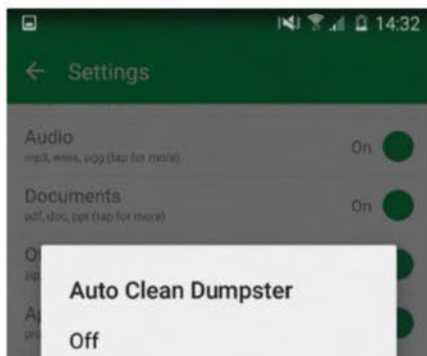
#### 6: Restoring items

Depending on the number of files, it may take a few minutes to finish restoring. Once complete, you will find a notification at the bottom. Tap Undo if you want to cancel the restoration process.



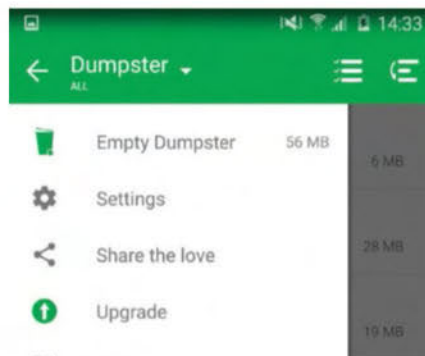
#### 7: Choose to delete

If you decide to delete files, the process is a lot quicker than restoring them. Again, a notification appears at the bottom when completed. Once deleted, the files will be gone for good.



#### 8: Add a schedule

To keep Dumpster running at its optimal level, go to the settings and select the Auto Clean Dumpster option. You can select how often Dumpster should clear itself. We recommend the 1 Week option.



#### 9: Clear it yourself

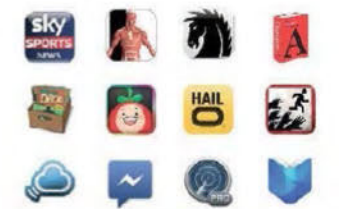
At the top of the side menu is Remove All Items. Here you can permanently delete everything stored in the app, great for removing large quantities of files in one go. It takes a few minutes.

## Is it possible to remove system apps?



System apps can take up vital storage on your Galaxy device. If you're a rooted user, you have a plethora of different options available to you when it comes to removing system apps. It's best not to remove any system apps that are very important, however, as it can impact on some of your Samsung Galaxy phone or tablet's core functions.

## Can I back up my apps?



If you're planning on wiping your Samsung Galaxy device, then backing up your apps (as well as your other stored files, such as photos and videos) is a very good idea. Use the App Backup & Restore app to get your apps backed up to a specified cloud account. That way, the apps you paid for aren't lost, and neither is your progress in certain mobile games, for instance.



# Double your battery power

Automatically turn off Android functions to improve your battery

The processors in our phones and tablets have never been more efficient, allowing us to do so much more than ever before with the limited energy stored in the battery. Even so, at times, when we're cut off from a mains supply, most of us find ourselves willing the battery to last that little bit longer so we can catch up on our emails, carry on an important conversation on WhatsApp, or maybe just to play a game a little longer.

Of course, some functions consume more power than others and we know that switching off the GPS, Wi-Fi or Bluetooth when we're not using them – as well as dimming the screen – will improve battery life. The snag is that turning features on and off is a hassle and it's all too easy to forget.

Here we look at how to use an app that does all this for us, allowing us to select different profiles depending on our circumstances and the amount of charge remaining in the battery. If you follow this guide, a flat battery should be a much less common occurrence.

## Enable and disable

JuiceDefender is as simple as touching the 'enabled' button. However, if it starts to get in the way, you can either select a different profile, customise it or, as a last resort, temporarily disable it, which is just as simple

## Balanced option

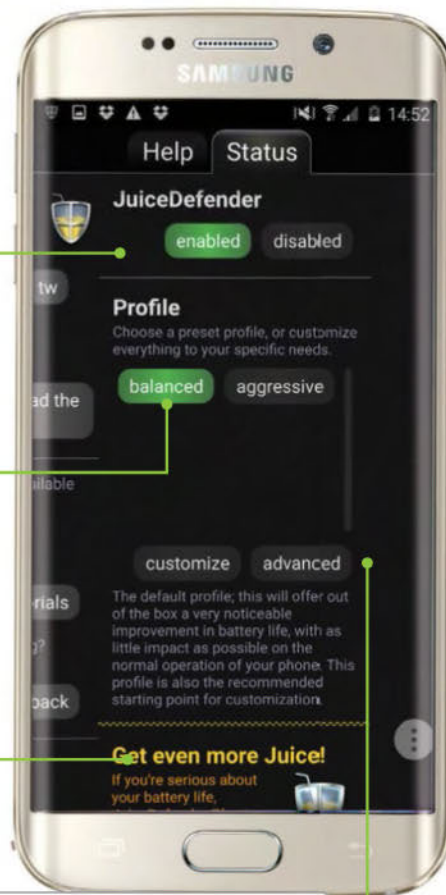
When you enable JuiceDefender, the balanced profile is selected. This doesn't stretch your battery life as much as other profiles but it's the least intrusive. It turns off connectivity when the screen is off, re-enabling it periodically

## Other profiles

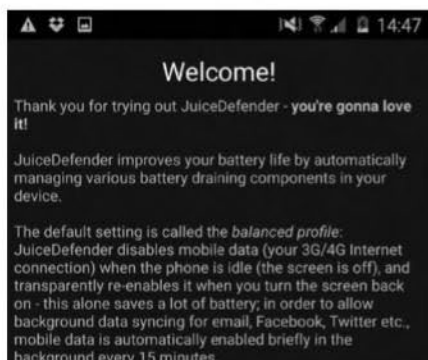
To improve battery life more, several profiles are available – although extreme is only unlocked if you upgrade, as are some of the options in customized and advanced. However they will still give a very significant boost to your battery life

## Advanced options

Three buttons appear when the advanced profile is selected and allow you to fine-tune how JuiceDefender works to reduce power. For example, select 'Battery 15%' so Juice Defender will turn things off if the battery gets this low

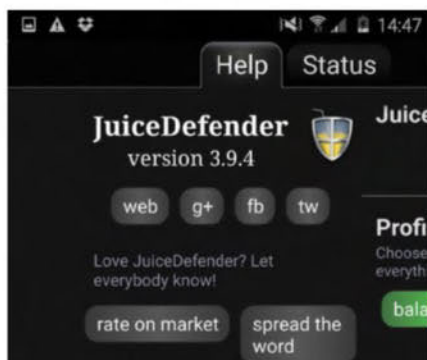


## JuiceDefender | Improve your battery



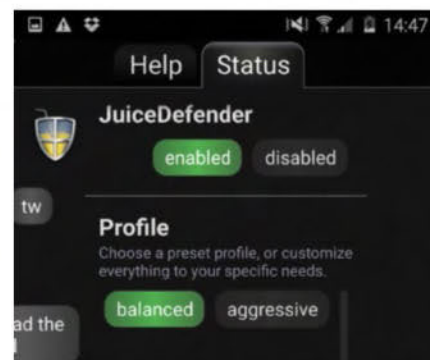
### 1: Start JuiceDefender

Install JuiceDefender from the Play Store and start it up. The opening screen explains how it works and how to interpret the estimate of how much you've improved your battery life. Take a look at this information before selecting 'Got it!' to get started saving power.



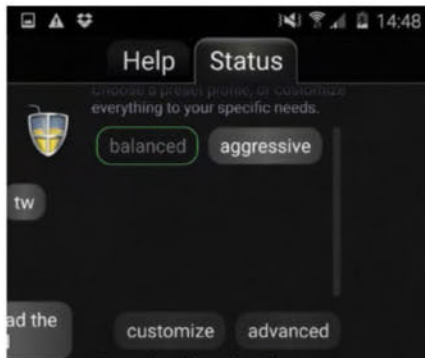
### 2: Remember there's Help

JuiceDefender starts in the Status tab. But, for now, select the Help tab. Unlike many apps, JuiceDefender has a comprehensive manual that you can access online from this tab. You might not need it just yet but remember, it's available by touching 'user guide & tutorials'.



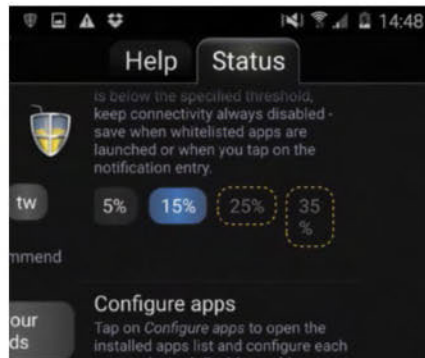
### 3: Enable JuiceDefender

Select the Status tab again and you'll notice that JuiceDefender is initially disabled. To enable it, tap 'enabled'. Even without selecting any more options, you'll already be saving power. JuiceDefender's icon will also appear in the notification panel to show it's enabled.



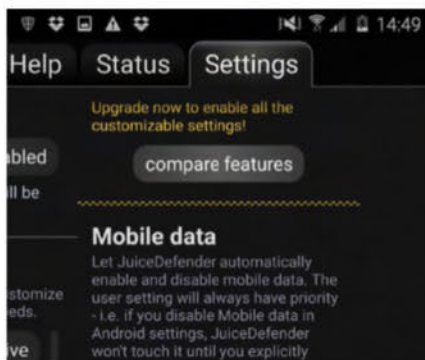
#### 4: Select aggressive profile

Initially, JuiceDefender will use its 'balanced' profile. There are four profiles to choose from (five if you upgrade); to see what they do, touch it to read the description. Touch 'aggressive' and then 'confirm'.



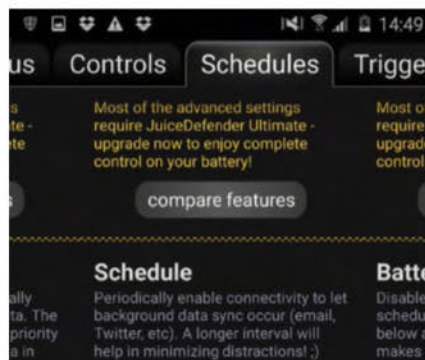
#### 5: Specify battery threshold

A feature of aggressive is specifying connectivity will be turned off at a certain battery level. Scroll to 'Battery threshold' and opt to enter this battery saving mode at 5% or 15% charge.



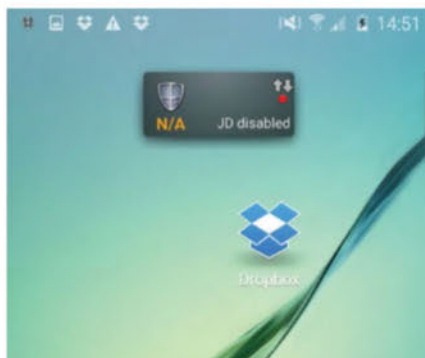
#### 6: Customise your profile

The balanced and aggressive profiles are simple, but the customize one is more versatile. In the Status tab, select 'customize' for a Settings tab to fine-tune it, but some features are restricted.



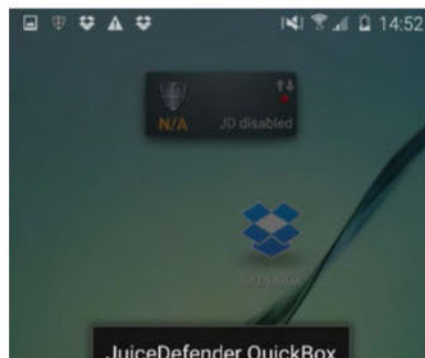
#### 7: Select advanced profile

The advanced profile in the Status tab allows more control. Select it to customise Controls, Schedules and Triggers tabs. Again, many of the features are only available if you upgrade.



#### 8: Use the widget

For JuiceDefender's status, select one of the two widgets, which show whether it's enabled, and which power-saving features are on. After four hours, it shows how much battery has improved.



#### 9: Use the QuickBox

Touch a widget to start up the QuickBox, if it's enabled, for easy access to common controls. You can enable or disable JuiceDefender, open the app or, depending on the profile, turn features on or off.

## Can Juice-Defender kill apps to save even more power?

No, the developers think it's a bad idea to stop apps running because their aim is to improve battery without unduly affecting the use of your device. Many experts also tell us that Android is pretty good at efficiently managing background tasks, to maximise battery life, without an additional app.

## If I'm using Juice-Defender, do Android's manual controls for Wi-Fi, Bluetooth, and Location still work?

Yes, JuiceDefender doesn't lock these manual controls. So, if you've chosen a profile that has connectivity turned off, you can turn it back on if you need to send an email or access the web. However, if you do decide to change these settings, JuiceDefender won't change them back – say, after a delay – so you'll have to remember to do that yourself.

# Hacks

Become an Android power user by tweaking the OS to suit your needs

## Feature

### 96 30 Xposed Essentials

We cover the essential tips for the Xposed framework for all your hacking needs.

### 104 Easily root to Lollipop

Root to the new Lollipop operating system without a kernel

### 106 Break your device out of a bootloop

Help is on the way if your Samsung Galaxy device is in a bootloop

### 108 Modify your battery icon

With a little bit of hacking knowledge you can modify anything!

### 110 Manage app start up

You can control which apps start running when you turn on a device

### 112 Repair WiFi and GPS signals

If you're suffering from bad signal, there are steps you can take

### 114 Boost your gaming performance

If you feel you're not getting enough out of mobile gaming, follow our tips

"Struggling to get online or get directions? Find out how to boost or repair those weak connections"

### 116 Customise your Galaxy device's lockscreen

Create a new look and a new functionality for your lockscreen

### 118 Run apps in tablet mode on a phone

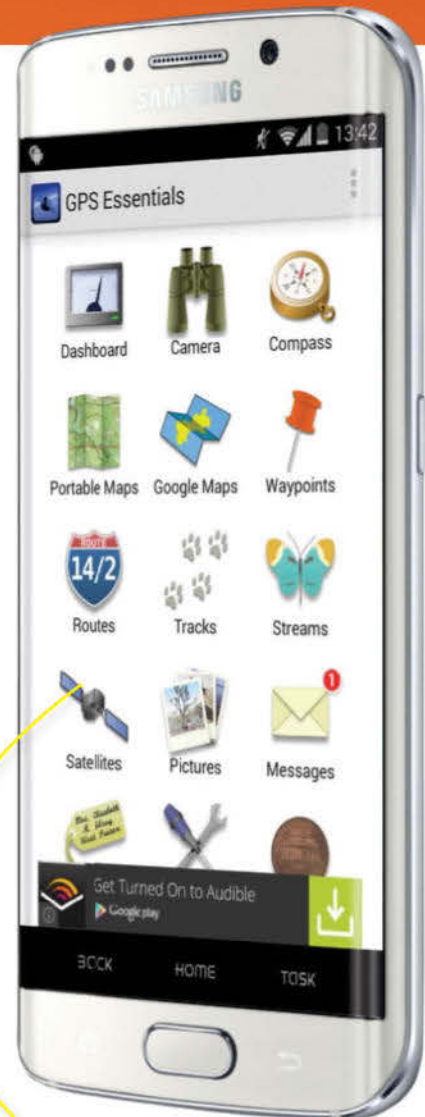
Some apps were intended for tablet use - enjoy them as they should be

### 120 Freeze unwanted bloatware and apps

Some apps take up unwanted space on your device - get rid of them!

### 121 Easily backup individual partitions on your device

Customise just what you want backed up and how

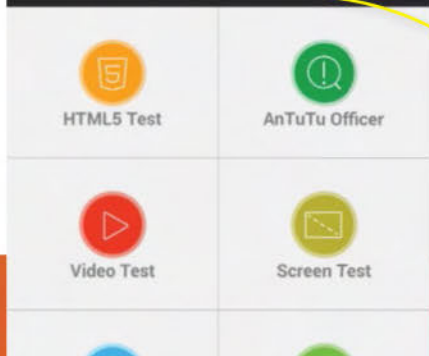
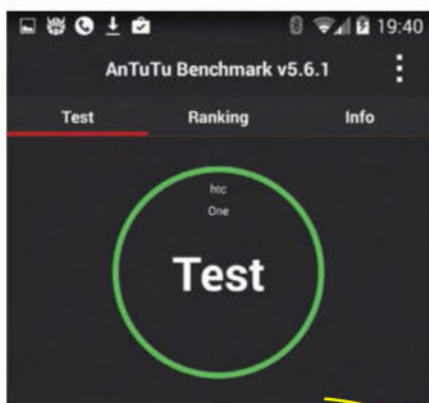
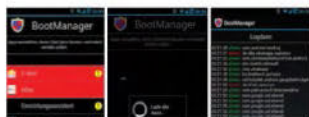


### 112 Repair your WiFi or GPS signal



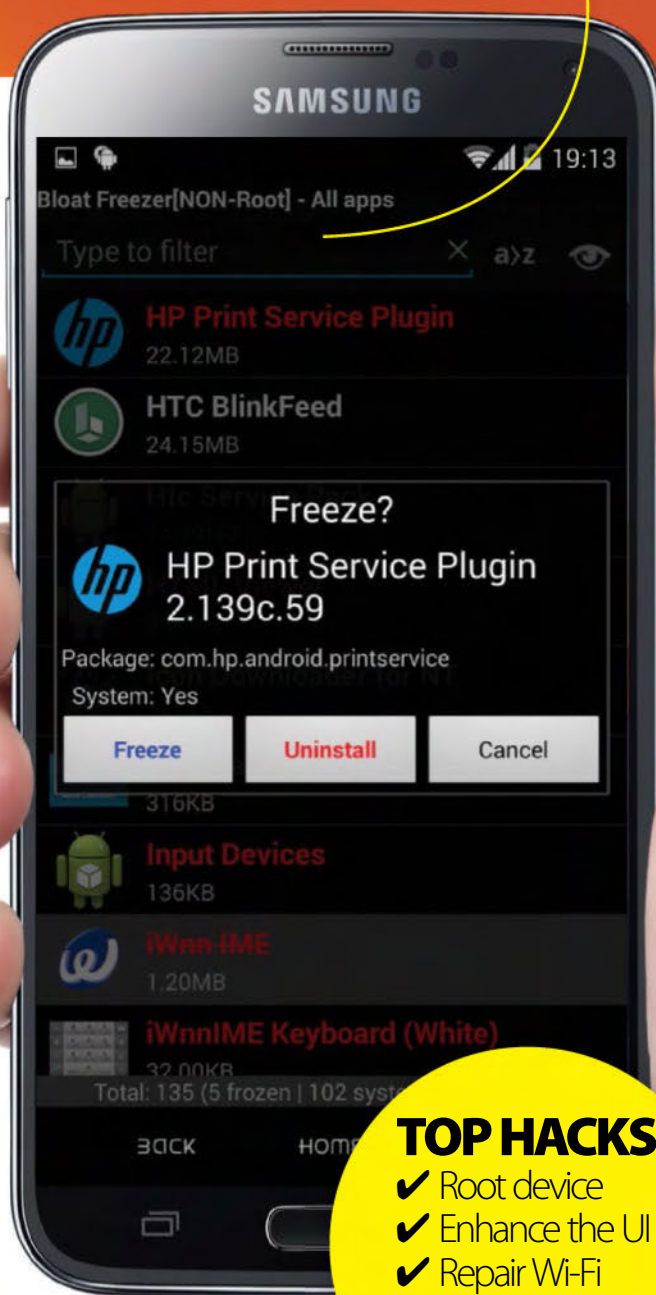
Run only the apps you want at system start.

[READ MORE](#)



**108** Break out of a bootloop

**120** Freeze unwanted bloatware and apps



**114** Boost your gaming performance

## TOP HACKS

- ✓ Root device
- ✓ Enhance the UI
- ✓ Repair Wi-Fi
- ✓ Freeze bloatware
- ✓ Make backups



# 30 XPOSED ESSENTIALS

## The easy way to build your own ultimate Galaxy

Once upon a time in a faraway land, if you wanted to modify your mobile device, you used a custom ROM. This had its good points – there were generally lots of ROMs to choose from for a large range of Galaxy devices and each had lots of custom tweaks.

But there were also some bad points. If you owned a more niche device, you'd often find that custom ROMs weren't available. More often than not, the custom ROM would have a tweak you liked but a whole host of tweaks that you didn't – it was generally all or nothing. Frustratingly, when the

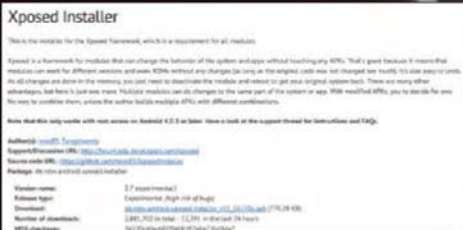
device manufacturer released a new ROM, you would then have to wait for the custom ROM developer to update their creations (which didn't always happen) before you could upgrade.

Not any more though! The Xposed Framework effectively abstracts the modifications from the ROM itself – creators of the mods instead create a module that can generally be used on any device running any ROM, even one that is stock apart from having the framework installed. Xposed makes modifying your device easier and returns control, of exactly how much or how little a device is modified, back to you.



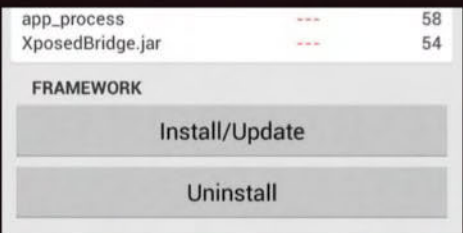


# How to install an Xposed module



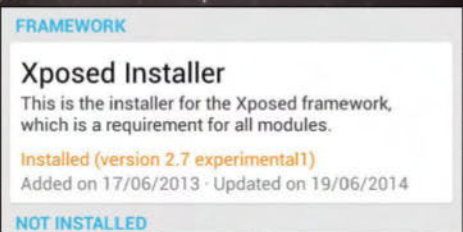
## 1 Download Xposed Framework

The Xposed Framework is installed via an APK and needs a rooted device with a writeable/system partition running Ice Cream Sandwich, Jelly Bean or KitKat. Download the APK from the Xposed Module Repository at <http://repo.xposed.info/module/de.robv.android.xposed.installer>.



## 2 Install the Framework

The Framework intercepts a key system function by replacing the `app_process` file in the `/system/bin` directory, using a jar file on the data partition. Select Install, and reboot. A key combination is included and a revert update zip is written to `/sdcard` in case of a non-boot emergency.

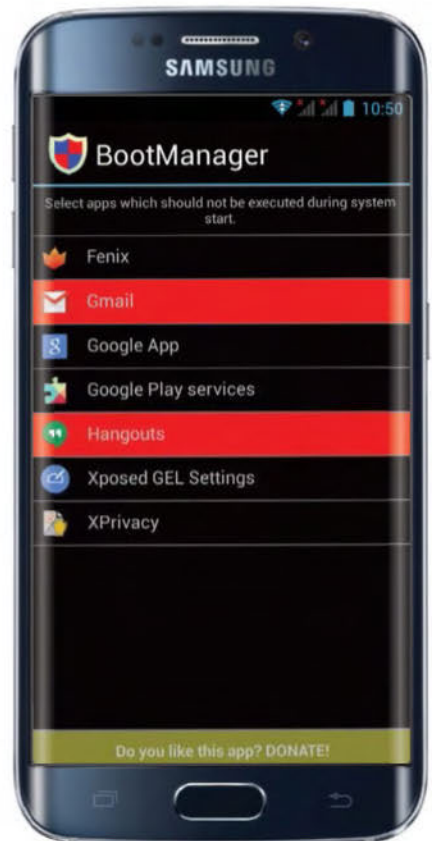


## 3 Download, install module

After reboot, check Xposed is running correctly by launching the Xposed Installer app. If it is, you're ready to install your first module! Modules are also installed as APKs. Once installed, a notification asks you to enable it. Do so, then go on and reboot and module will be fully loaded.

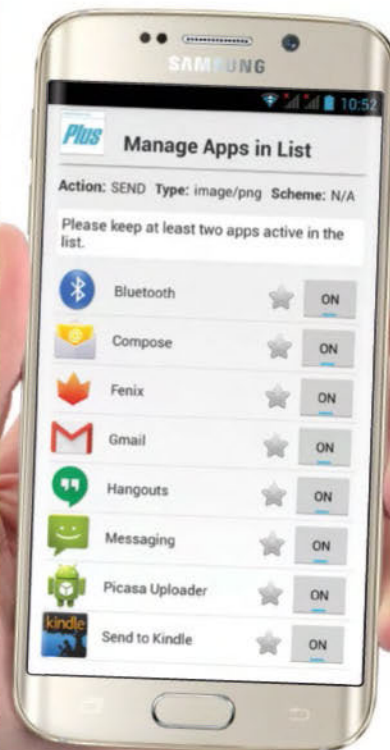
# Boot Manager

When your Android device boots, it broadcasts this fact to the whole system. Any application that has the `boot_completed` permission granted (displayed when you install the app from the Play store) can receive this broadcast and start a background service or anything else it pleases. It's surprising how many apps have this permission! Boot Manager allows you to list apps with this permission and prevent them receiving the broadcast. This can improve device performance and save memory without negative side effects, provided you wield your new-found power wisely. Other system broadcasts can also be intercepted using the application, such as those that indicate a change in connectivity.



# Complete Action Plus

One of the most powerful features of Android is its ability to share content between applications. This happens using the 'Complete Action Using' or 'Share' dialogue, which does the job but is a bit limited (and ugly, particularly on older releases of the Android OS). The Complete Action Plus app replaces this dialogue and enables you to show an optional Always checkbox at the bottom of the dialogue (or keep the stock Once & Always buttons), change the layout to List or Grid with a customisable number of columns for portrait and landscape view, modify the text size (or hide it), alter the theme to light, dark or custom colours, hide 'Never to choose' apps from the list, put your favourite apps at the top of list and set a long press action to show app information or set the app as default.



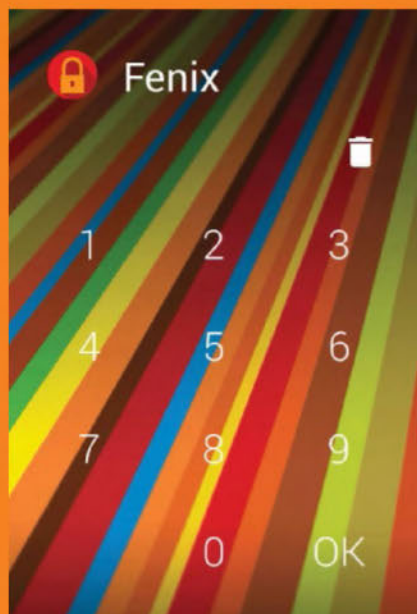


## Tinted Status Bar

Tinted Status Bar is a simple module that lets you to change the status bar colour based on the current running application. This happens automatically for apps that have a standard action bar – if an application doesn't change the status bar colour automatically, it can be configured to do so manually in the settings application. Navigation bar overlay is also supported and the app runs on most popular ROMs included MIUI and CyanogenMod.

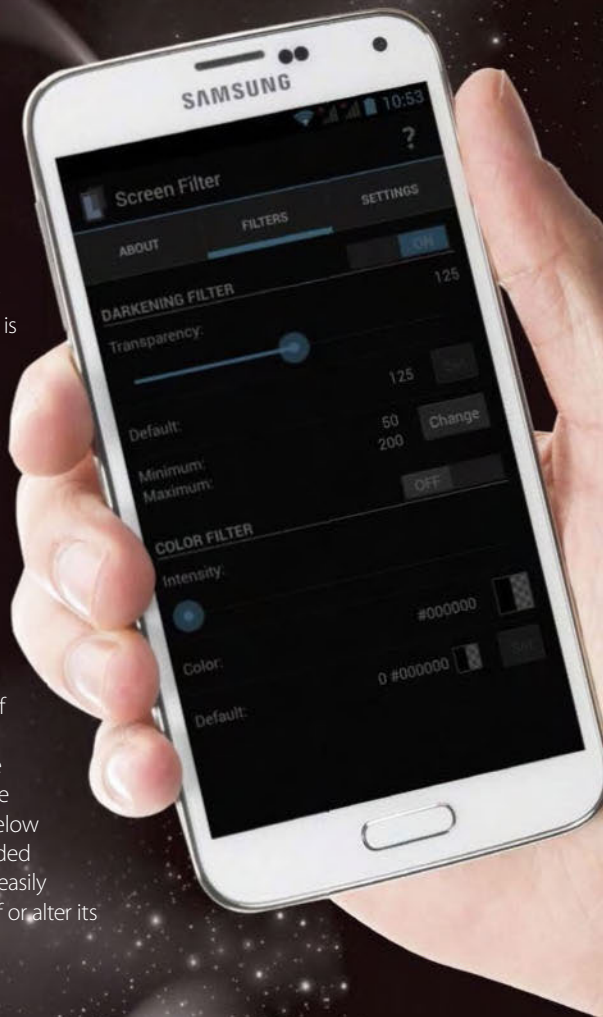
## MaxLock

MaxLock is an application locking tool. Most app locks use polling to detect current running processes. This drains battery, slows performance and is less secure than this Xposed based alternative, which uses a low level event driven method for best results. Passwords, PINs and Knock Codes can be used to protect individual apps and in the premium version, failed app launching can be logged to see who is trying to use what on your device! It has an ultra-modern look and lots of customisation options.



## Screen Filter

One of the biggest problems with using a mobile phone or tablet in somewhere that is dark or dimly lit, is that the screen is really bright even when it's turned down to minimum brightness. If you like to read your phone in bed at night, this can be disturbing for someone else, it's not good for your eyes and it doesn't do you any favours when you decide to go to sleep. This module puts a transparent view on top of the window manager in order to darken the whole screen. Once activated, the module adds a toolbox below the header of your expanded status bar where you can easily switch the filter on and off or alter its transparency if you like.



**“The module adds a toolbox below the header of your expanded status bar where you can switch the filter on and off”**

## Keepchat

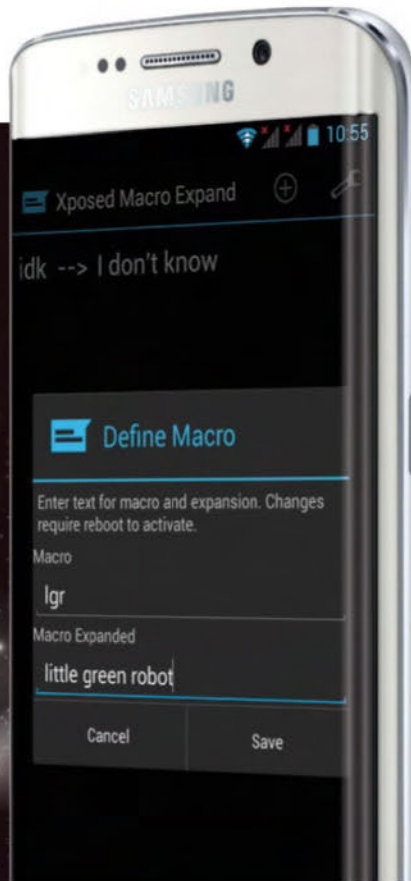
The very essence of the popular Snapchat application is that content disappears after a short period of time. But this doesn't have to be the case! This Xposed module lets you save any Snapchat content manually or automatically. It

works for snaps and stories – both images and videos – that you send or receive via Snapchat. It can save snaps in a different folder for each user and it is frequently updated each time that Snapchat update their app. It's sneaky but very useful!



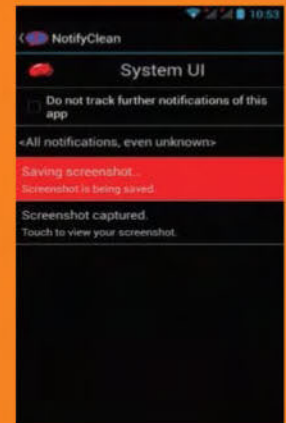
## Macro/Text Expansion

This module lets you to automatically expand text sequences in any text box and in (almost) all apps! Have you had enough of typing out your long address in emails? This is the solution. Since it uses Xposed and operates at the text widget level, it works with all factory and third party keyboards and can be added to user dictionaries for even faster use. Almost all applications are supported with a few notable exceptions (such as Chrome). The performance is very impressive, the replacement happens in an instant. A useful import/export function helps you get set up quickly on a new device (or on multiple). A reboot is required to activate new expansions.



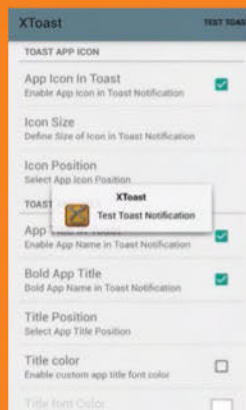
## NotifyClean

NotifyClean, as the name suggests, enables you to clean up the notification area on your device. On an app by app basis, you can change virtually any aspect of the notification including its position, visibility, LED/vibration/sound alert, ongoing status and ticker text. Full screen notifications can be denied completely and notifications can even be modified using Tasker scripts. A particularly useful feature is the ability to expand notifications by default for maximum information at a glance.



## XToast

Toasts are the little messages that pop up on the screen for a few seconds to notify you that something has happened in an application. Though useful, they could do with a bit of improvement and XToast contains useful tweaks! Modifications include: adding the application icon to the toast notification, adding the app name to the toast, switching between Jelly Bean, KitKat, Gingerbread and Holo toast styles, change toast duration, alter toast background transparency and select where toast notifications appear on the screen.



## XInstaller

XInstaller is a huge toolkit for tweaking the Package Installer, which manages all aspects of application installation, uninstallation and upgrade. Key features include: enabling/disabling signature checking, verifying, unknown app installing, downgrading, installing apps on external storage, forward locking (encryption), keeping apps' data after uninstalling and more. Apps can auto install or uninstall, auto close after doing so and automatically backup to your SD card. XInstaller is powerful, but it lets you circumvent security features on a device. Use it with care!

## Extra low-level device tweaks

### ActivitForceNewTask

When you share Hangouts from an app, Hangouts actually ends up being duplicated inside of that apps process, and switching between them is impossible! This module fixes it that by always launching apps in their own new task.

### Amplify

Amplify helps you manage how your device uses its battery by enabling you to control how often your device can wake up and how long for. You can use the recommended settings for easy battery savings or customise every little thing.

### AppOpsXposed

App Ops was a great utility to manage app permissions at a glance and help diagnose battery permissions, but Google removed it in Android 4.4.2. AppOpsXposed puts it back, adding it to the settings menu in Android 4.3 upwards.

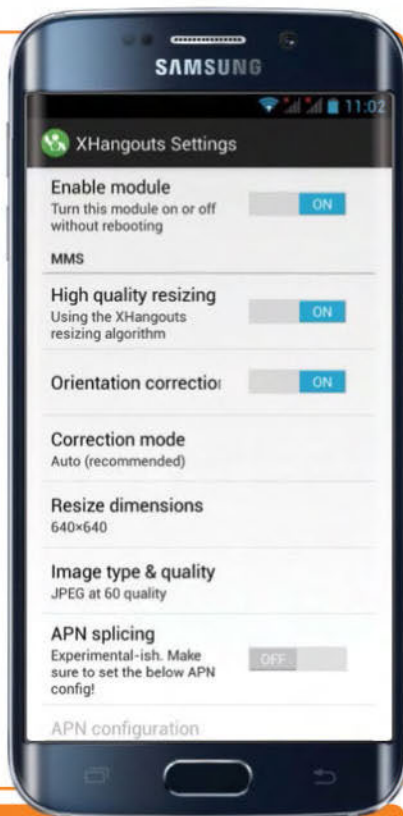
### Greenify

When apps are 'closed' on your device, they generally aren't. They're in the background running services, consuming resources and still wasting battery. Greenify lets you hibernate apps when they are not being used.



## XHangouts

Google Hangouts is an excellent app, but it has some issues, particularly when used as a SMS and MMS client. MMS images don't rotate properly when you are sending a message, images are resized to such a low resolution that they are virtually unusable and your device's battery can take a real hammering if you're using a lot of MMS, due to the excessive use of wakelocks. This Xposed module fixes all of the above and has an easy-to-use settings dialogue to get everything running perfectly. One of the best features is MMS APN Splicing. Normally your device will switch to a completely different APN connection to send and receive MMS messages which is slow and inefficient. XHangouts means this is no longer necessary and performance will be vastly improved.



## Xposed GEL Settings

Not so long ago, the first thing that anybody did when they set up a new device was to install a third party launcher. The stock launcher was ugly, basic and sorely lacking in features. Since KitKat, however, this has changed – the Google Experience Launcher (aka the Google Now Launcher) is great to look at, fast but hard to switch from if you enjoy the Google Now integration. Xposed GEL Settings brings the best of both worlds. It has a host of customisation options that can be applied to the stock launcher, making it just as feature packed as many of the 3rd party alternatives. Tweaks are made both to the appearance (it's now much more customisable) as well as functionality, with popular features such as icon packs, notification badges and gestures being fully supported. A paid premium version is also available to install.

## Screen Off Modifications



### Dynamic Notifications

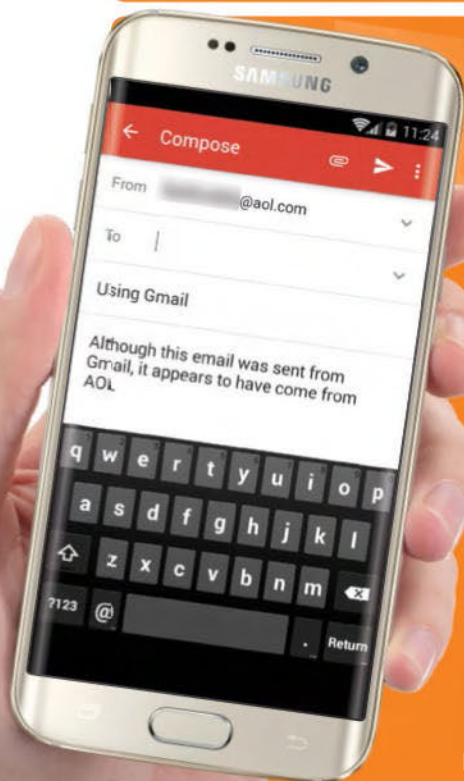
Dynamic notifications alert you to important notifications when your screen is off. When you miss a call or receive a new message, the display will light up to let you know. Rather than using a useless notification LED, Dynamic Notifications enable you to immediately decide if something is important enough to act.

### NFC Screen Off

NFC tags are easy to use for automation actions on your device, such as switching profiles in Tasker. There is a problem though – by default, NFC tags aren't detected by the device when the screen is off or the device is locked. This Xposed module resolves that problem by making tags much more versatile.

### DoubleTapToSleep

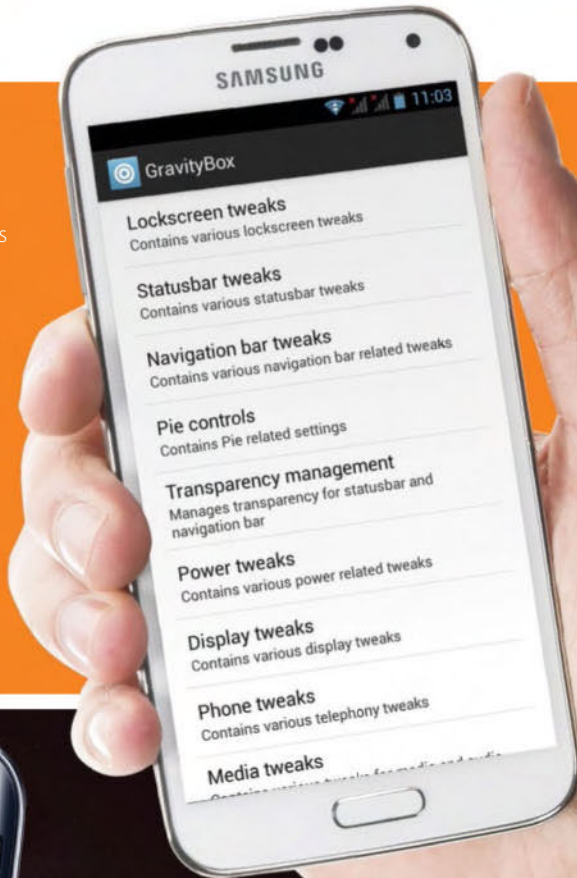
This is an Xposed mod that's so simple, you wonder why it's not built into your Samsung Galaxy phone or tablet already. Just double tap the status bar on the top of the device's screen and your device will turn off. It works particularly well when paired with double tap to wake, which saves wear and tear on your little power button.





# GravityBox

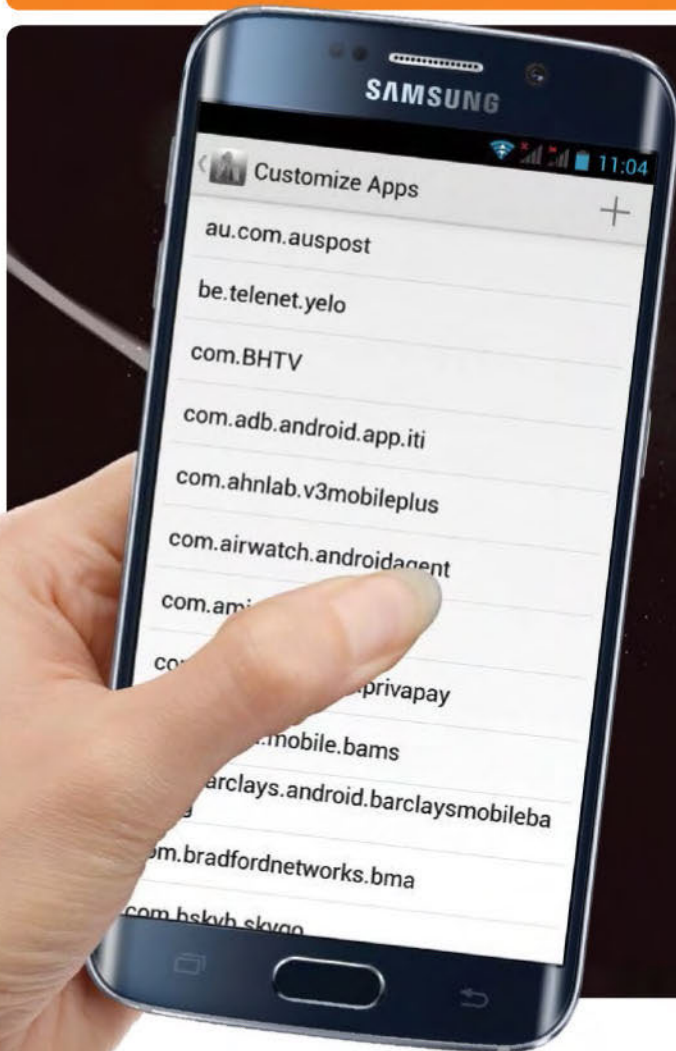
GravityBox is a device toolkit where it's almost easier to say what it doesn't do than what it does – it's that comprehensive. Main features (although this doesn't even scratch the surface) include QuickSettings tile management with additional tiles and tile reordering, CyanogenMod Pie Controls, Lockscreen targets, Expanded desktop with semi-immersive and immersive modes, Lockscreen tweaks, Statusbar tweaks, Navigation bar tweaks, Power tweaks, Display tweaks, Media tweaks, Hardware key actions, Dialer tweaks, Launcher tweaks, Screen recording, Smart radio and Notification control (per-app notification LED/sounds/vibrations). If you are using Xposed, install this module and you are certain to find something useful – it often performs the functions of several other modules in one. Separate versions are available for download depending on whether your device is running Jelly Bean or KitKat. Both are frequently updated with new tweaks and are installable via the Play store – the easiest way to ensure you're up to date.



# Root Cloak

It's really handy to have root on a device, but some application developers are real spoilsports, detecting that you have rooted your device and refusing to run. This is particularly common with streaming video apps (in order to protect content DRM) or banking applications. RootCloak is an ingenious use of Xposed, that intercepts the methods used by apps to check for the root files, making your device appear un-rooted to those apps. Not all apps are supported but a huge range are. An implementation of RootCloak is also available for Cydia Substrate, which supports some apps that the Xposed version doesn't.

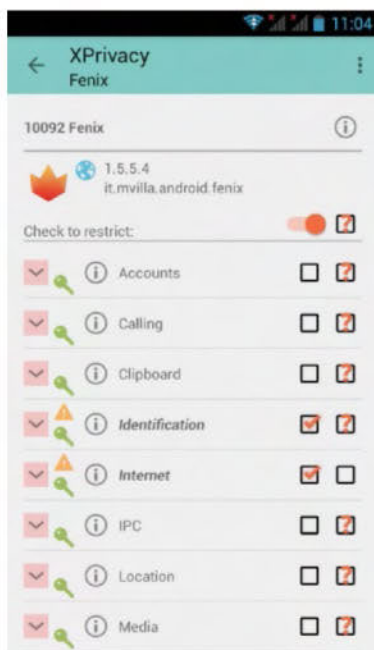
**"An implementation of RootCloak is also available for Cydia Substrate"**





## XPrivacy

XPrivacy enables you to control what personal data applications can access on a per-app basis. This is achieved by feeding an application with no data or fake data. There are several categories that can be restricted, including contacts or location. For example, if you restrict access to contacts for an application, this will result in sending an empty contact list to the app. Restricting an app's access to your location will result in a fake location being sent to the application. XPrivacy can also fake no Internet connection and no SD card present. Feeding fake data rather than blocking access ensures that apps still run in the right way on your Galaxy device.



**“XPrivacy enables you to control what personal data applications can access on a per-app basis”**

## Whats AppX

WhatsAppX, as the name suggests, adds additional features to the WhatsApp chat application. Extras include Per Contact Wallpaper which provides the ability to apply individual wallpapers to each of your contacts, Lock Contacts which PIN locks access

to specified chats, Hide Message Preview to hide the message preview displayed on the main screen of the app and Save Favorites, which lets you add important messages to WhatsAppX so you don't have to scroll through your whole chat history.

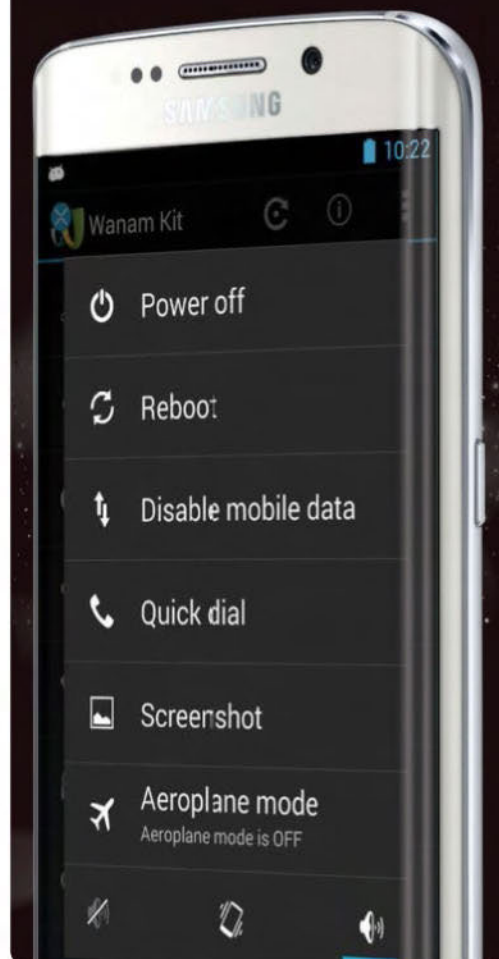
## CrappaLinks

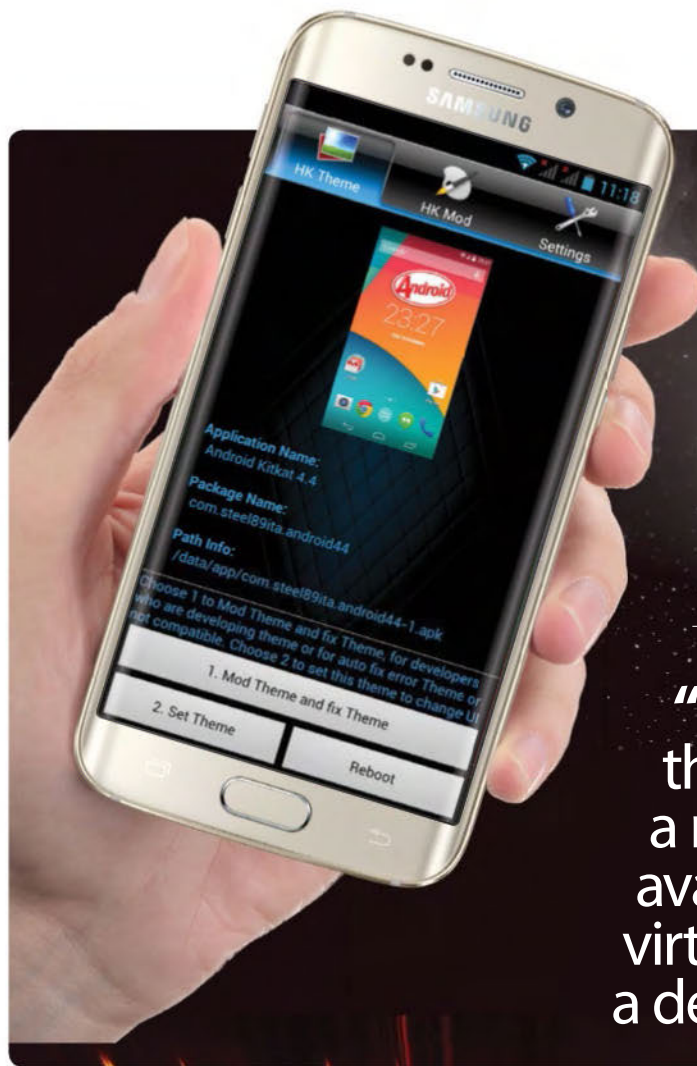
CrappaLinks deals with the issue where some apps redirect links through their servers or link shorteners which breaks intent filters. This means that you can't open the Play store, links with the Play

store or YouTube links with the YouTube app, you are forced to use a browser to do so. This module hunts down the final link to open in the right app, to aid quick and easy app openings on your device.

## Wanam Kit

Wanam Kit is another all-in-one toolkit (similar to GravityBox) that provides a huge number of functions for customising KitKat and above stock Android ROMs. Features available include: enabling numeric battery, changing clock position, altering the colour and typeface of the battery text, disabling the scrolling cache, skipping music with volume buttons, disabling screen turn-on while plugging or unplugging, disabling loud volume sound warning, advanced power menu, enabling data roaming on home network, torch via volume up button, long back to kill app, CM circle battery, hide or set colour of the battery text, expand all notifications, add option to kill all app activities, enabling heads up notifications and disabling swipe gestures.





## HKTheme Manager

HKThemeManager is a system theming utility that supports CM Themes, XThemeEngine themes, and its own HK Themes format for changing the look and feel of the system on Xposed and rooted devices running Ice Cream Sandwich or above. Support for multiple theme types means that a number of themes are available that can change virtually every aspect of the device. A settings application is included to choose a theme that is applied after a reboot. Themes can be downloaded from forums such as XDA-Developers or even via the Play store, provided they are in one of the above formats – there are thousands of them available. If you're more creative, HKThemeManager is great for making your own themes – the tutorial at the CyanogenMod site (<http://wiki.cyanogenmod.org/w/Themes>) has advice to get started.

**“Support for multiple theme types means that a number of themes are available that can change virtually every aspect of a device”**

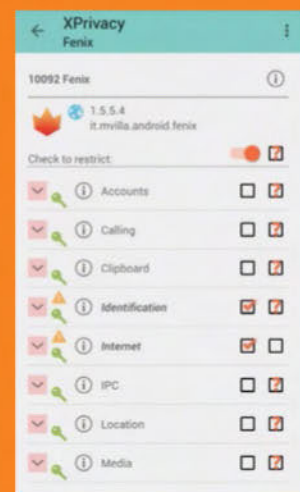
## LightningWall

If you are a passionate Android hacker, safety will always be your first concern. A wonderful addition to any rooted Samsung Galaxy device, LightningWall is a full firewall implementation that hooks into the Xposed framework. Apps with the 'android.permission.INTERNET' permissions are automatically listed and incoming or outgoing TCP and UDP traffic can be managed based on individual network types. Full logging is also included. LightningWall is especially invaluable on expensive networks. As an Xposed module, iptables or a supporting kernel aren't required – another major pluspoint for hacking enthusiasts.

**“LightningWall is especially invaluable on expensive networks”**

## MinMinGuard

MinMinGuard is a low level ad-block type tool which works not only in the browser, but in any Android application as well. A huge amount of ad networks are supported and the module works extremely well, but the developer has discontinued its development. It can still be downloaded, however, and as an open-source project another developer is highly likely to pick it up and bring it back.





# Easily root to Lollipop with no kernel

Use the latest beta of SuperSU to root android without a modified kernel

It can be a bit troublesome when a new version of the Android OS hits if you've got a rooted device. Developers take time to get to grips with the new software and it takes a while for different models of Android phone and tablet too. For some time now, upgrading to a rooted version of Lollipop has meant using a modified kernel to work around some restrictions in the new OS. A new beta build of SuperSU stops all that though. It's a more invasive procedure and as it's still in beta, there is a danger that it could brick your device. It also apparently has the

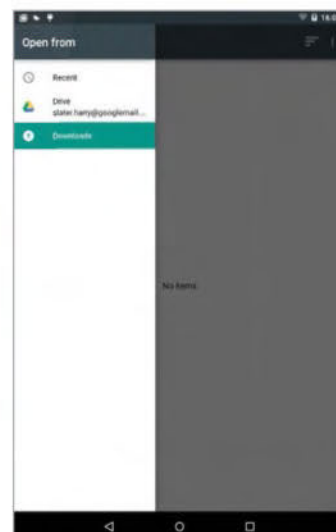
highest risk of bootloops of any build of SuperSU so far, so make sure you back everything up and know what you're doing before you even try it. The process is not too time consuming but if you want to help out with the beta testing of the app, it's a good idea to re-root your device to stock Lollipop, to avoid any clashes between the modified kernels you've been using up until now and the new version which uses Zygote service to bypass the need for them. Again, please bear in mind that this tutorial could brick your device, so make sure you backed up before you start.

"It's troublesome when a new Android OS hits when you have a rooted device"



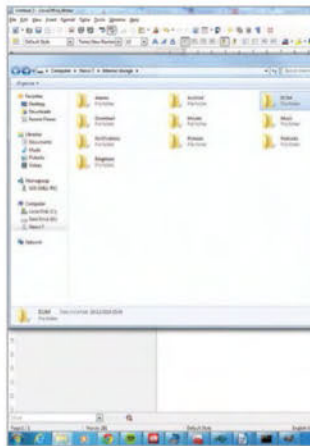
## 1: Flash to stock

To get started, you will need to flash your device back to stock. This can be a time-consuming job, but there are a number of ways to do it effectively. If you are using a Nexus device then your best bet is the Nexus Toolkit, which you can download for free at this link: [www.wugfresh.com/nrt/](http://www.wugfresh.com/nrt/)



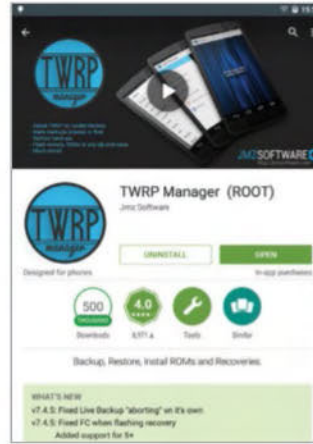
## 6: Compile the ROM

For the next step, navigate to the main folder of Little Kitchen and then run the main.cmd file. A dos prompt screen will then appear on the screen and compile the source ROM minus the selected apps from the previous step. The new ROM will be saved in the ROM folder of Little Kitchen.



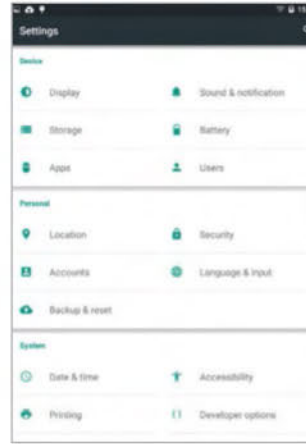
## 2: Flash the file

When your device is running stock Android you need to download the SuperSU beta from this link: [tinyurl.com/pmatxpb](http://tinyurl.com/pmatxpb). Download the zip file to your PC, and then connect your phone or tablet to the PC with the USB cable. You will also need to make sure your device is unlocked.



## 3: Drag and drop

Now drag the zip file into the root of the storage on your device. You will need to have a bootloader program installed on your device to perform the next step, so head to the Play Store if you haven't already and install TWRP. It's free and pretty easy to install and use.



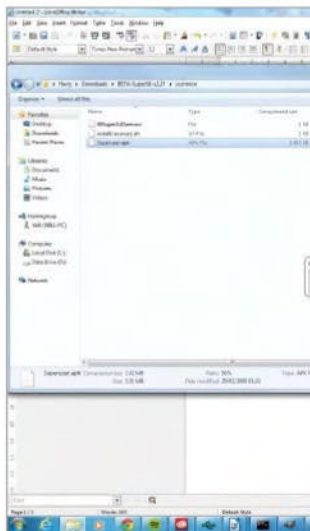
## 4: Check USB debugging

If you were not able to drag and drop the file, it's probably because you're not running USB debugging. This is an option in the hidden Developer options menu. If you're unsure how to unlock that, then it's probably best that you stop this tutorial right now!



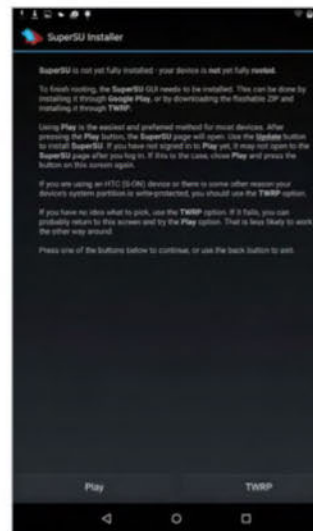
## 5: Go into recovery mode

Now you need to reboot your Galaxy device into recovery mode. You can do this using the command prompts or by pushing the power and volume down button until the boot menu pops up on screen. Tap on the volume buttons to open up recovery mode.



## 7: Use the APK

If this doesn't work, grab the APK of the app directly from the common folder in the zip download and install it straight onto your device. Make sure that you have got your device set up so it's able install apps that aren't downloaded from the Play Store.



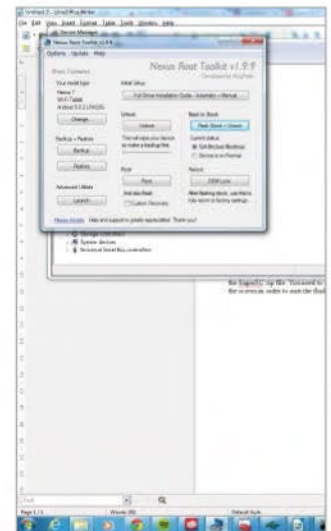
## 8: Check it worked

Now head over to the Apps options in the Settings menu and check which version of SuperSU you have got installed. If everything worked, it should be marked 2.27. If not, then it is possible that your root installed its own version of the program onto your device.



## 9: Flash it again

If that's indeed the case, there is another alternative option! You need to find an other root method and flash the right zip into it using TWRP or an alternative. You can do this from the TWRP app itself, using the zip file you downloaded at the start of this tutorial.



## 10: Don't give up

If things haven't worked, don't despair. The beta is still ongoing and there's a good chance that the Play Store version of SuperSU will be updated with the new functionality. You will just have to keep using the modified kernel version of Lollipop for now.



# Break your device out of a bootloop

Learn how to root an Android device that's refusing to boot

If your rooted device is refusing to boot properly, the solution is usually to restore a backup or flash a new ROM. But what if your unrooted device is just refusing to boot?

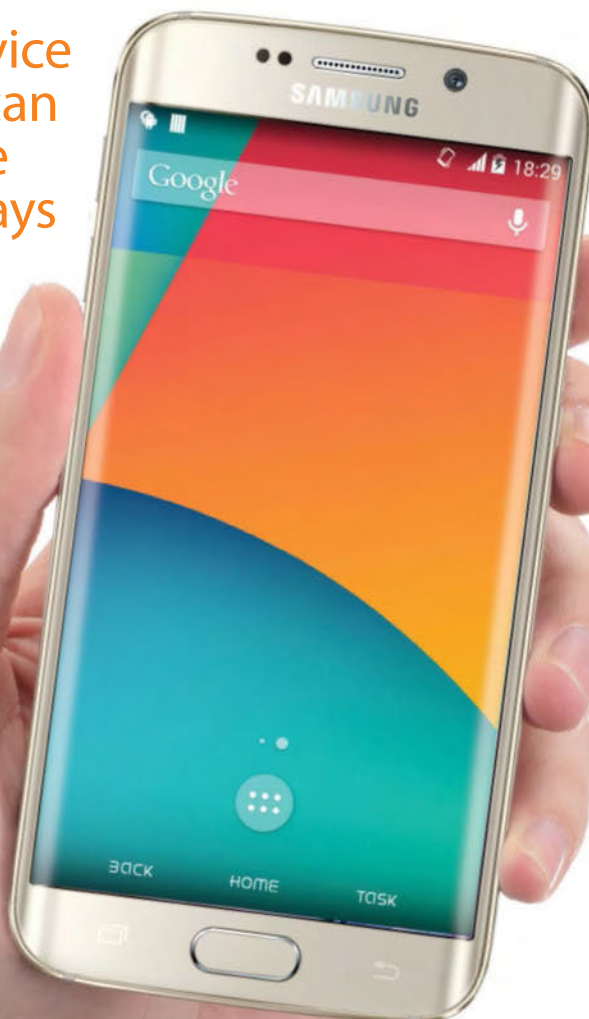
Unrooted smartphones and tablets are less susceptible to booting issues, but they can still occur. Maybe you were attempting to root your device and something went wrong, or you previously achieved root, but have since soft-bricked your device. Now, to make matters worse your device has spontaneously unrooted itself too.

Whatever the reason, if your device is stuck in a bootloop, or it's only getting as far as the bootloader or recovery mode, then your Android device is only

**"Once your device is rooted, you can take advantage of the many ways of recovering a rooted device"**

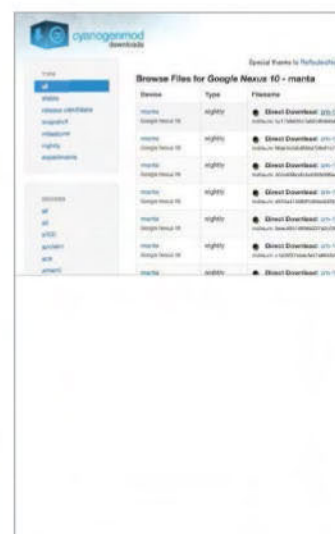
soft-bricked and should still be salvageable. One way to recover your device is to root it. Once your device is rooted, you can take advantage of the many ways of recovering a rooted device, such as installing a custom recovery and flashing a new ROM.

This tutorial will show you some of the potential ways to recover a soft-bricked, unrooted Samsung Galaxy smartphone or tablet by rooting it and then attempting some root-only fixes. Although this tutorial is geared towards users who haven't achieved root, some of the later steps should also be useful if you've managed to soft-brick a rooted device beforehand. If you stick closely to these steps, your worries could soon be over.



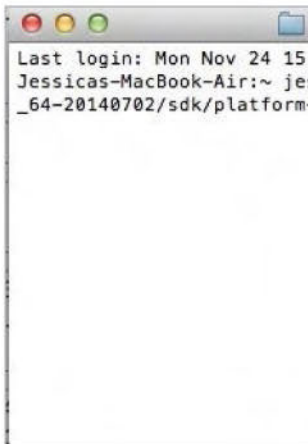
## 1: Download the SDK

One way of rooting a device that's stuck in a bootloop is by pushing Android Debug Bridge (ADB) commands from your computer to your Android device. Boot up your computer and download the Android SDK from <https://developer.android.com/sdk/index.html?hl=i>. Open your new ADT folder.



## 6: Flash custom ROM

Once you've achieved root, there are several tricks that you can do that can break your device out of a bootloop. One potential solution is to flash a custom ROM. To start this process off, just find a suitable ROM online and download it to your computer, then move this file across to your device.



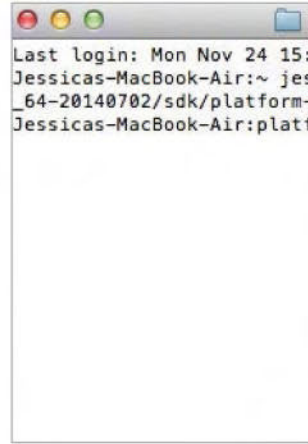
## 2: Launch your terminal

Open the platform-tools folder, and find ADB. Open your Mac's terminal or Windows command line, and point it towards ADB, using the cd command, followed by ADB's file path. Your command should look like: cd /Users/jessica/Downloads/adt-bundle/sdk/platform-tools.



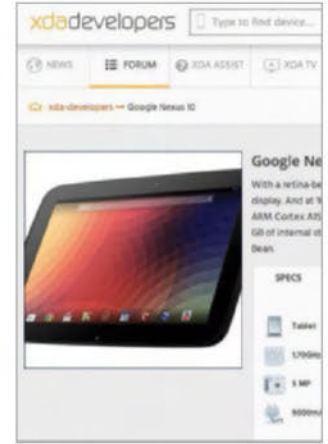
## 3: Time your commands

Attach your device to your computer using the USB cable. The trickiest part is working out when to issue commands. This is different for each device, but aim to push ADB commands after the manufacturer logo appears, but before the device starts another boot cycle.



## 4: Unlock and root

You'll mostly use ADB and fastboot commands to boot into your device's bootloader (adb reboot bootloader), unlock the bootloader (fastboot oem unlock) and install a custom recovery by getting the latest ClockworkMod and running 'fastboot flash recovery filename.IMG'.



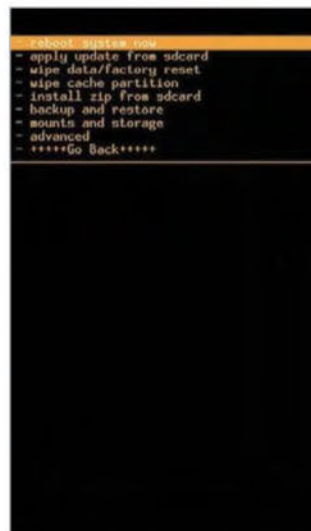
## 5: Find right instructions

The golden rule of rooting an Android device is to only use instructions written for your particular device. The best place for device-specific rooting tutorials, is the XDA Developers forum, where you'll find designated boards for a wide range of different devices.



## 7: Flash stock ROM

Use ADB commands to boot into your custom recovery, and flash the custom ROM. Reboot the device and see whether your device is booting properly. If custom ROMs don't seem to be doing the trick, it may be worth tracking down the stock ROM and attempting to flash this.



## 8: Reboot from recovery

If you've successfully flashed a ROM but your device now boots straight into recovery, don't panic. Some ROMs launch into recovery the first time you boot them. In recovery, navigate to 'reboot system now', select this and see whether your custom ROM loads normally.



## 9: Wipe your device

If you've flashed a ROM and your device is still in a bootloop, you may need to wipe your device. Launch your device into recovery mode, select Advanced and Wipe Dalvik Cache. Then select Go Back and Wipe Cache Partition, then Wipe Data/Factory Reset. Now reboot.



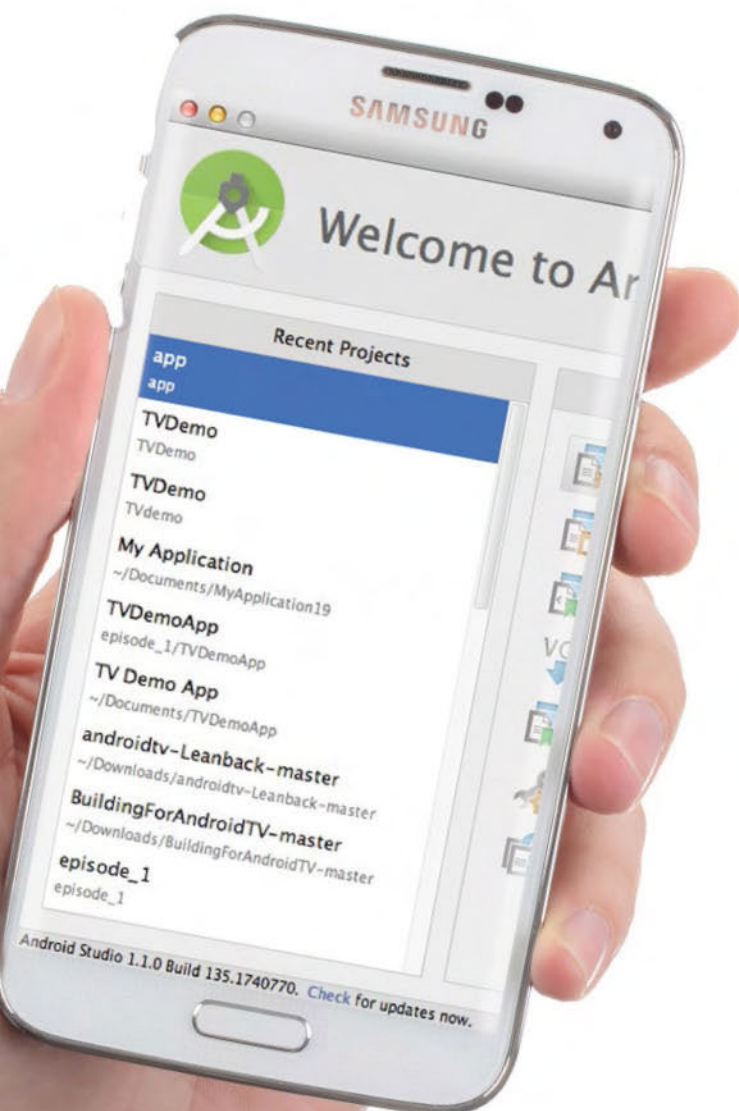
## 10: Factory reset

If you've been unable to achieve root, then you could recover from a bootloop by using the stock Android recovery to factory reset your device. Boot into the stock recovery, select 'Wipe data/factory reset' and confirm that you want to factory reset your Android device. Then reboot.



# Modify any Android device's battery icon

Learn how to create custom battery icons for your Samsung Galaxy smartphone or tablet



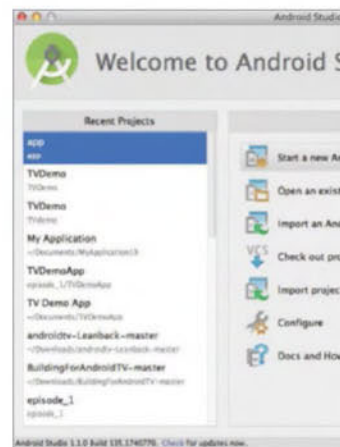
If you've rooted your device, there's pretty much no limit to the you can do or make. We will show you how to delve into the individual image files that make up your device's ROM, so that you can create your own battery icons on your Samsung Galaxy device. You can either edit the existing battery images, or replace them with entirely new graphics instead.

To customise your battery icon, you'll use 'adb' (Android Debug Bridge) commands to pull the SystemUI.apk file from your Galaxy device and onto your computer.

You'll then use a program called Apktool, to decompile the SystemUI.apk into a series of editable files so you can make changes to the battery images. Once you've finished editing, Apktool will then help you to recompile the files back into a single SystemUI.apk file, and then use SignApk to 'sign' the modified SystemUI.apk so it can successfully run on your device. Finally, you'll use another adb command to push the modified SystemUI.apk file back to your device.

Apktool is available for Windows, Linux and Mac. This tutorial has been written specifically for Apple Mac, but the steps used here are just as applicable to Windows and Linux computers too, although the actual adb, Apktool and SignApk commands will differ slightly between the different operating systems.

Since you will be using adb commands, you will need to have Android Studio set up on your Mac for this tutorial to be effective. You can easily download and install it from <http://developer.android.com/sdk/index.html>.



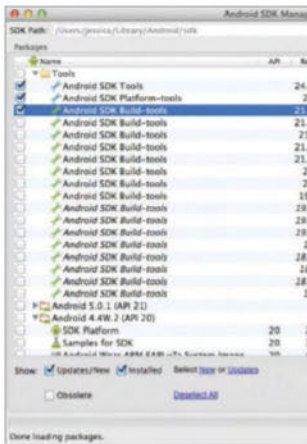
## 1: Create a project

Download additional packages for Android Studio. Launch Android Studio and create a new project, which makes it easier to download the necessary packages, so follow the onscreen instructions and accept all the project defaults. Select Tools>Android SDK Manager from Android Studio's toolbar.



## 6: Move SystemUI.apk

Move the SystemUI.apk file to your apktools folder. Change directory so the Terminal is pointing at the apktools folder (`cd /Users/username/apktools`). Check Apktool is working by entering the Terminal command: `./apktool`. If it's working correctly you'll see information about Apktool commands.



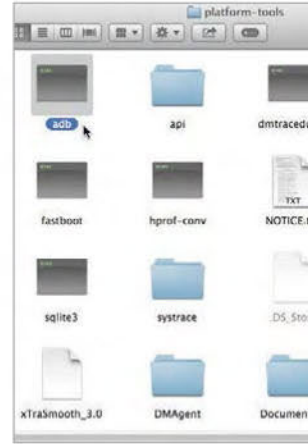
## 2: Install extra packages

SDK Manager opens with some packages already selected. Leave these packages selected, but also make sure you have the latest versions of SDK Tools, Platform-Tools and Build-Tools selected. Install the packages by following the instructions and close Android Studio.



## 3: Create Apktools folder

Go to [code.google.com/p/android-apktool/downloads/list](http://code.google.com/p/android-apktool/downloads/list), download Apktool and a relevant helper script. Unzip both and create a 'apktools' folder in your home directory. Move the files into 'apktools', then go to your 'platform-tools' folder (use Finder to search for 'platform-tools').



## 4: Change directory – 'cd'

'Platform-tools' contains an 'adb' file. Open a Terminal window, type a 'cd' command into the Terminal window and press 'Enter' to change directory. Your command should look like this: `cd: /Users/username/Downloads/android/sdk/platform-tools`. Attach your device and computer via USB.



## 5: Do an ./adb pull

Check your computer recognises your Galaxy by entering `./adb devices` into the Terminal. Use `./adb pull` to move your device's SystemUI.apk file onto your computer. The location of SystemUI.apk varies, but your Terminal command should look like `./adb pull /system/app/SystemUI.apk`.



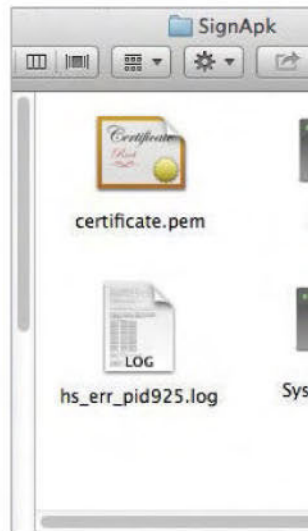
## 7: Decompile SystemUI

Decompile your SystemUI.apk file by running this Terminal command: `./apktool d SystemUI.apk`. A new SystemUI.apk folder will appear – open it and navigate to its 'res' folder. Depending on the ROM, you'll see different 'drawable' folders containing the battery graphics for your device.



## 8: Edit battery images

You can replace the existing battery images with your image files, or alter the existing files. Just ensure to keep the filenames, images sizes and image resolutions the same. Once done, recompile the SystemUI apk using the following Terminal command: `./apktool b SystemUI`.



## 9: Sign your APK

Sign your .apk by downloading SignApk from <http://bit.ly/1xeEwtn>. Unzip, then move your SystemUI.apk into the SignApk folder. Change directory so the Terminal is pointing at the SignAPK folder, then run: `java -jar signapk.jar certificate.pem key.pk8 SystemUI.apk SystemUK.apk`.



## 10: Use ./adb push

Push your apk to the device. Change directory so the Terminal is pointing at your platform-tools folder, use `./adb push` to push System.apk to the location you pulled first it from. Your command should read: `./adb push /Users/username/Downloads/SystemUI.apk /system/app/`.



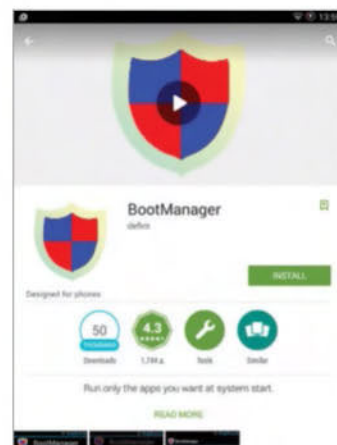
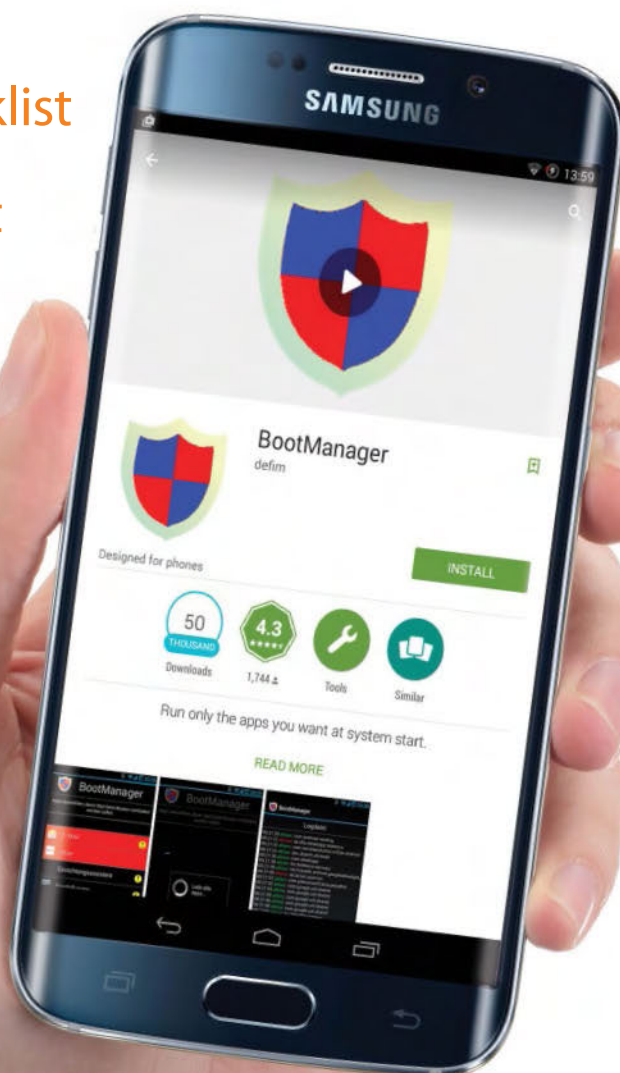
# Manage app start up on device boot

Control which apps load when you boot up your phone or tablet

Getting to grips with a rooted device can be a lot of fun. But once you've played around with all the cosmetic changes, thanks to the freedom that modded ROMs offer, it's time to have a look at how your newfound access can actually speed up your phone or tablet. A great first step is to supercharge your boot-up time, forcing apps you don't use that often to stay asleep when you hit the power button. That's exactly what BootManager does. In a few taps you can blacklist certain apps so they're not hogging system memory and slowing down your boot-up time. You'll be surprised how many

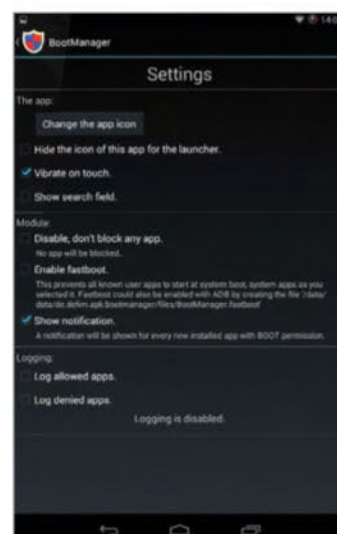
programs are starting when your device first turns on. It's a pretty simple task, but you'll need a few things to get going. You'll need a rooted device, but you'll also have to have Xposed framework installed. This handy little tool lets you add modules that change certain behaviours on your phone or tablet. Once it's installed, and updated to the latest version, you'll need to head on over to the Google Play store to grab the module you need to complete this tutorial. When you're ready, to the first step to see how many apps are slowing down your start-up process and how simple it is to make sure they never do it again.

**"In a few taps you can blacklist certain apps so they don't hog system memory"**



## 1: Get the app

First up you will need to get the app from the Google Play store. You'll need to download the free version first. We will talk more about the paid version a little later on in the tutorial, which provides a little something different. When it's installed, head on over to the Xposed framework app to get started.



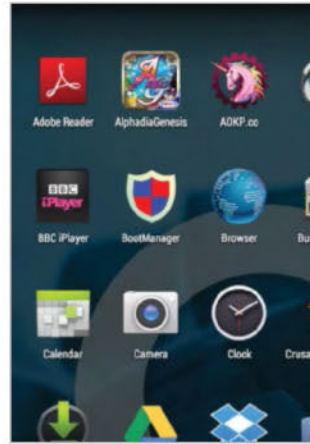
## 6: Change the look

Head to the Settings menu. You can do this by tapping the three lines in the top-right corner of the screen. Here you will find a few options that you will be able to play around with. At the top of the screen you'll see options to change the app icon or make it disappear entirely to free up some screen space.



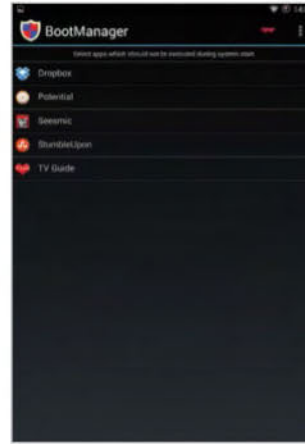
## 2: Install the module

You should see the BootManager app in the list of modules you've got downloaded. Tap the check box next to it to start the installation process, and then go on and reboot your device to finish it off. The reboot might take a couple of minutes, so be patient whilst it finishes.



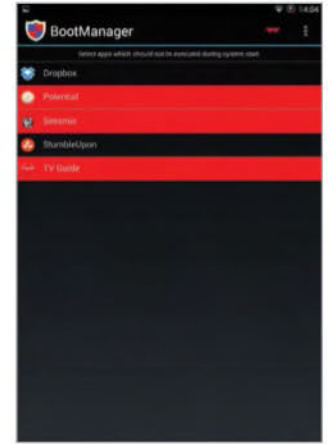
## 3: Hit the app

Once your device has completely finished rebooting, you will need to head to the BootManager app itself. It shouldn't be too difficult to find. Start it up and you will be shown a check log of recent updates that the app has received. Tap okay to get rid of the log.



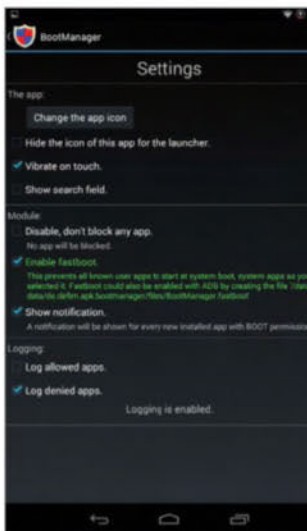
## 4: Check the list

You will see a list of the apps you've got installed that start up when your device boots. It probably won't be a very long list, but it's likely that some of them really don't need to be using up those resources and slowing down your boot time on all of your devices.



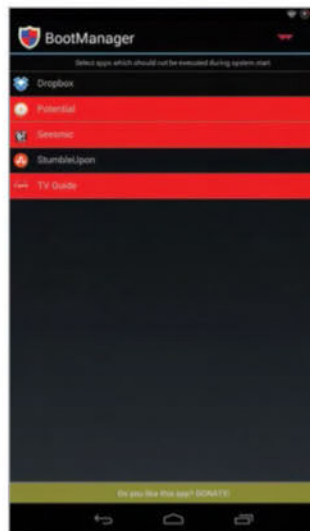
## 5: Kill some apps

To stop an app from starting up when your phone or tablet boots up, all you have to do is tap on it to stop it from starting. This will then turn it red. If you want to change the settings to apply, then just tap it again and it'll be enabled so that it starts on boot again.



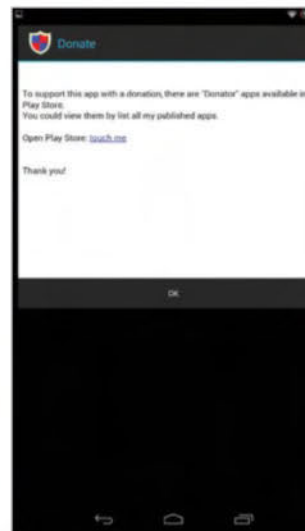
## 7: Kill them all

For a quicker solution than picking out apps from a list to prevent them from booting, tick the box marked Enable Fastboot. This essentially stops all user apps from starting at boot. It's especially useful if you've got loads of apps that are starting when they don't really have to.



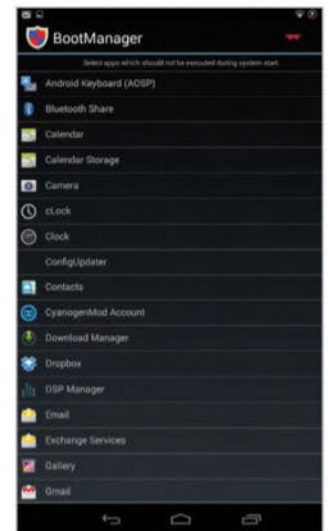
## 8: Free or paid

In the main menu, you should see a button at the bottom of the screen asking you to donate. Donating is recommended because it opens up a lot more options and lets you toggle system apps as well as ones that you've installed yourself. Tap the button to start donating to the devs.



## 9: Buy the app

Tap the link to be taken to the Play store, where you'll need to buy another app that acts as a license. When it's installed, head back to the BootManager app and refresh the list from the menu button. It'll take a couple of seconds to load but after that you will have your paid version.



## 10: The big list

Now you can see what loads when you boot up your device. Ones marked with a yellow exclamation mark are system processes, so be careful about stopping them from starting when your device boots. A quick Google will tell you what you need and what you don't need.



# Repair Wi-Fi and GPS Signals

Struggling to get online or get directions? Find out how to boost or repair those weak connections

Whether you're searching for directions on Google Maps or checking-in to a place on Facebook, you probably won't notice how much you use GPS until your device struggles to find your location.

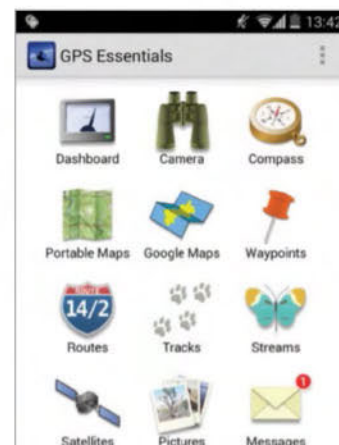
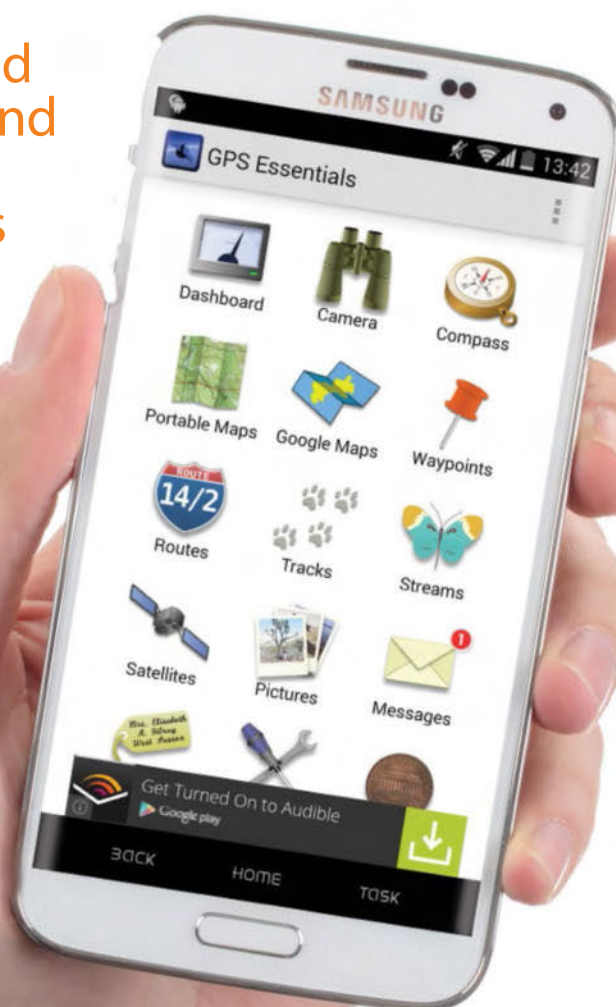
Although problems with your device's hardware or software can cause permanent GPS issues, the problem will usually be something that automatically resolves itself in time, for example when you move into an area that has better GPS coverage. However, this is little consolation when you're lost and you need directions straight away.

It's a similar story with your device's Wi-Fi. Sometimes, you'll know that an open network is

in range, but for some reason your Android either isn't detecting it or it's detected the network but is refusing to connect to it. Again, most of the time this is a temporary blip and your device's Wi-Fi will spontaneously start working again. But, what about when you urgently need internet access, for example when you're expecting an important email, or during a business Skype call?

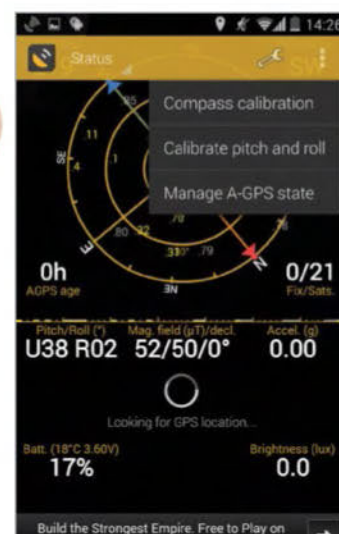
The good news is that you don't need to sit around and wait for Wi-Fi and GPS issues to resolve themselves. There are a lot of tricks you can try, that can force your device to actually find your current location and connect to Wi-Fi.

**"You don't need to sit around and wait for Wi-Fi and GPS issues to resolve themselves"**



## 1: Diagnose your problem

If you're battling GPS issues, you should be checking whether the fault really lies with your device, or whether you're just currently out of range of any satellites. GPS Essentials can check how many satellites are within range. Download it from the Google Play store (<http://bit.ly/1Ji6QHI>), and launch the app.



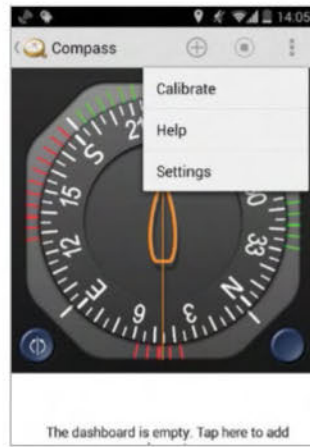
## 6: Clear DPS data

Tap the screen to open up the toolbar. Tap the wrench icon and select 'Manage A-GPS state', then tap Reset. Repeat this process, but this time select Download instead. The app will then start downloading GPS data from the internet, and should pinpoint your position within the next few minutes.



## 2: Search for satellites

Tap Satellites and GPS Essentials will display all the satellites currently within range. If there are only a few satellites, or even no satellites at all, then this is most likely the cause of your GPS issues. The lack of satellites problem should resolve itself as soon as you leave your current location.



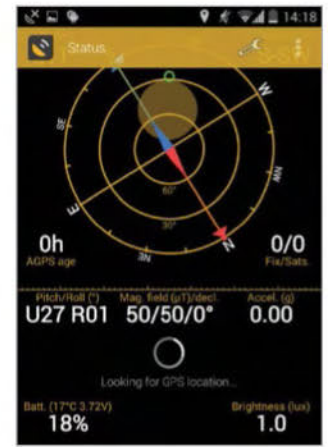
## 3: Calibrate the compass

If it isn't satellite coverage, the device's compass may be improperly calibrated. Select the app's Compass, tap the menu and select Calibrate. Ensure your device is on a flat surface. Then slowly rotate your device in three circle movements around the axis, pointing upwards.



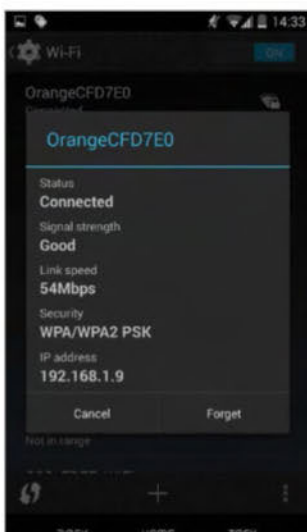
## 4: Rotate your device

Slowly rotate the device three full circles around the axis pointing away from you. Then, rotate three full cycles around the axis pointing right. Return to the main Compass screen – it should now be properly calibrated. If it isn't, repeat the rotation process to get it to work.



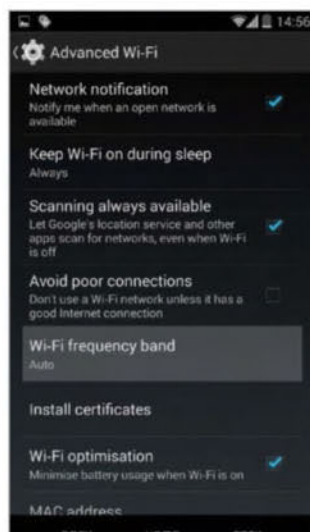
## 5: GPS Status & Toolbox

It's possible for your device to get stuck on certain satellites, even if they're not within range. If you suspect this has happened, you can resolve the problem by clearing your device's GPS data, using the the GPS Status & Toolbox app. Download it from the Play store and launch it to solve this.



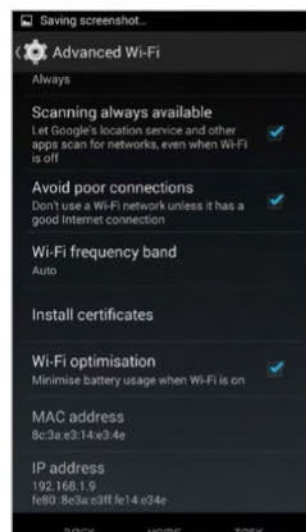
## 7: Reset Wi-Fi network

If you have problems with your Wi-Fi, try rebooting your router. Also try resetting your connection by navigating to the Wi-Fi menu, tapping the network you're having problems with and selecting Forget. Then try reconnecting to this network by tapping it.



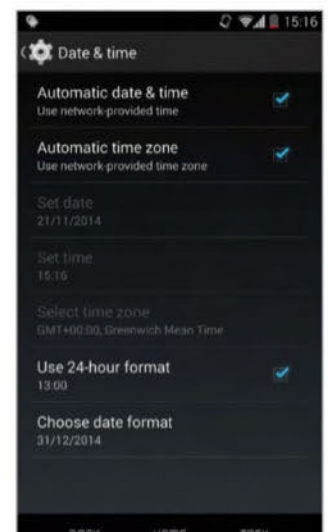
## 8: Check Wi-Fi frequency band settings

If you have a dual-band router, the problem could be that your device is only using the 2.4GHz band. Check this by opening Settings, selecting Wi-Fi and tapping the menu icon. Select Advanced and check your 'Wi-Fi frequency band' settings.



## 9: Avoid bad connections

It could also be that only weak networks are currently available, and your device is set up to ignore poor connections. If you think that might be the issue, then open Settings>Wi-Fi>Advanced. Now you should check whether you have 'Avoid poor connections' selected.



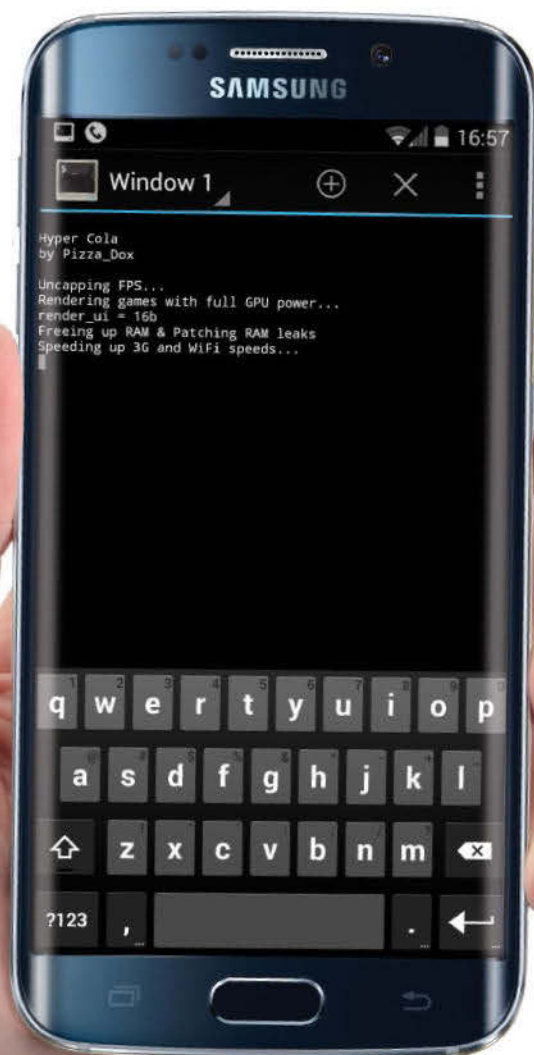
## 10: Date and time

If there are discrepancies between the date and time settings on your device and router, this can cause connection issues. Ensure your settings are correct in Settings: select 'Date and Time' and ensure that both 'Automatic date & time' and 'Automatic time zone' are selected.



# Boost your gaming performance

Overcome sluggish gaming speeds and choppy sound effects with these scripts and mods



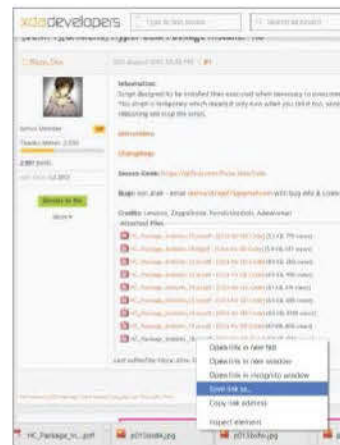
Whether you're using a high-end Samsung Galaxy tablet or one of the budget models in the extensive range of Galaxy phones, Android gaming can prove frustrating when gameplay is disrupted by poor hardware performance.

In theory, a device with a fast CPU and GPU should play games without any issues, but this is rare unless you have taken steps to ensure that gaming is prioritised. Closing all other apps or restarting your device and only running the game when you reboot, is not exactly easy without the introduction of third party tools to help.

If a game is listed as being compatible with your Galaxy device, it isn't an unrealistic expectation for it to run in a playable manner. Fortunately, these tools exist in the shape of scripts and mods that can be downloaded from XDA-Developers.com and installed on a rooted device to improve your overall gaming performance – and your gaming experience of course.

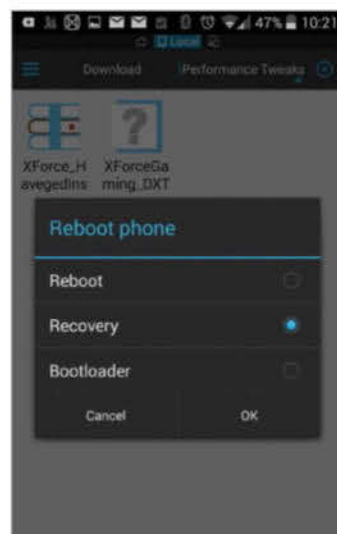
Installing these scripts and mods usually requires the assistance of a supporting app, so we recommend you start with the Hyper Cola Package Installer (you could also try XForce Gaming, NxEngine and Project Fluid), which can be found and downloaded by running a search on the XDA-Developers.com forum. Installing scripts individually and testing them with a resource-hungry game before proceeding, is the best option.

One word of warning: these scripts come with no warranty, so there is the risk that your phone or tablet could be bricked. Make sure you backup your data before proceeding!



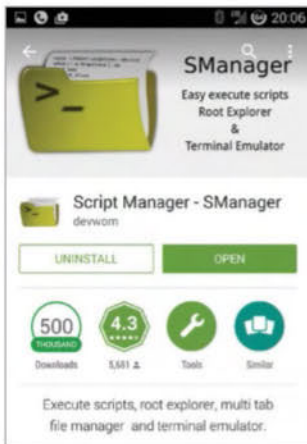
## 1: Download the script

First off, head to XDA-Developers.com and then search for the Hyper Cola Package Installer. Find the download link for the most recent version, which will have the suffix .SH.PDF. Right-click and select the 'Save link as...' option. Then you can simply save and copy it to your phone.



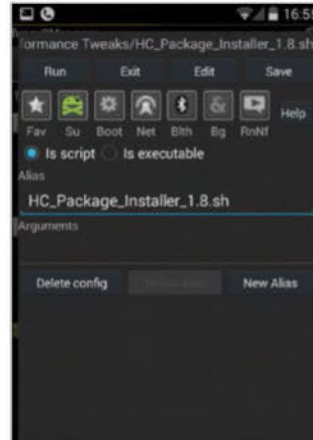
## 6: Download and flash

Again at XDA-Developers.com, search for Blend Boosted and download the ZIP file, transferring it to your Galaxy device if you downloaded on your PC. The BlendBoosted.zip file will need to be flashed in your recovery, so restart Android, boot into Recovery (TWRP or CWM) and flash.



## 2: Install additional tools

To install this script you will need to install a few tools. First is SManager for managing script executables on Android, which is available from Google Play. While you're there, install the Terminal Emulator for Android that's required to enter the launch command.



## 3: Install the script

Open SManager and browse for the script which you have renamed from .SH.PDF to .SH. Select the SU option in the top-left of the screen (to run the script as root) and Run. If done correctly, you'll see various confirmations being displayed as the script makes its changes.



## 4: Execute the package

The final step for Hyper Cola Package Installer is to run it. Run Terminal Emulator for Android and enter: su -c hyper. Launch your preferred game and you will notice better performance. The command must be entered each time you reboot for the script to work.



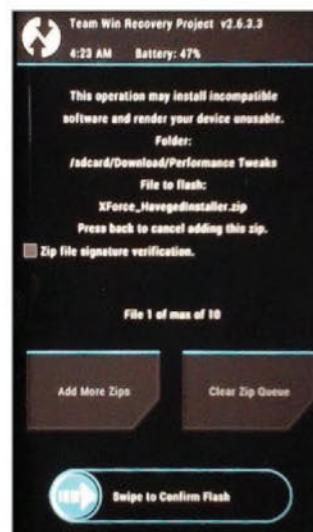
## 5: Boost your graphics

Graphics management in Android isn't ideal, with most ROMs putting app and homescreen graphics onto the CPU, leaving the GPU for gaming. Blend Boosted is a great app that gives the GPU more to do and has audio and video tweaks for performance enhancements.



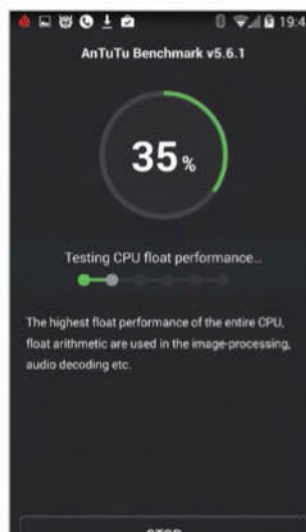
## 7: Extensive tweaks

Rather than running a script to tighten issues, you can consider a more comprehensive approach. This is made possible with XForce Gaming, but installation requires additional tools like Havedge Installer, found in XDA's XForce Gaming thread and SManager.



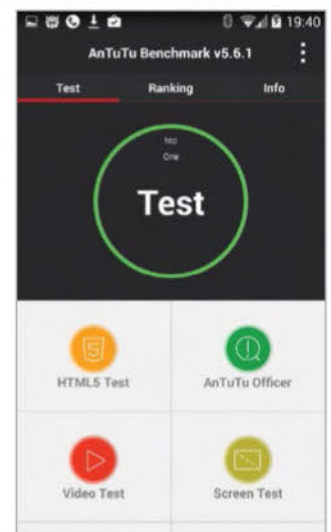
## 8: Install XForce Gaming

Restart Android and flash Havedge Installer in recovery. Restart, download the newest version of the script and open in SManager, moving it to /system/xbin. Set the permission to 777 and ownership as root. In Terminal Emulator, enter su xforce to install tweaks.



## 9: Benchmark performance

It's useful to check how your Galaxy device's gaming performance has been increased with these tweaks to get an idea of what works and what doesn't. Benchmarking is the answer, with AnTuTu Benchmark being the best such app on Google Play.



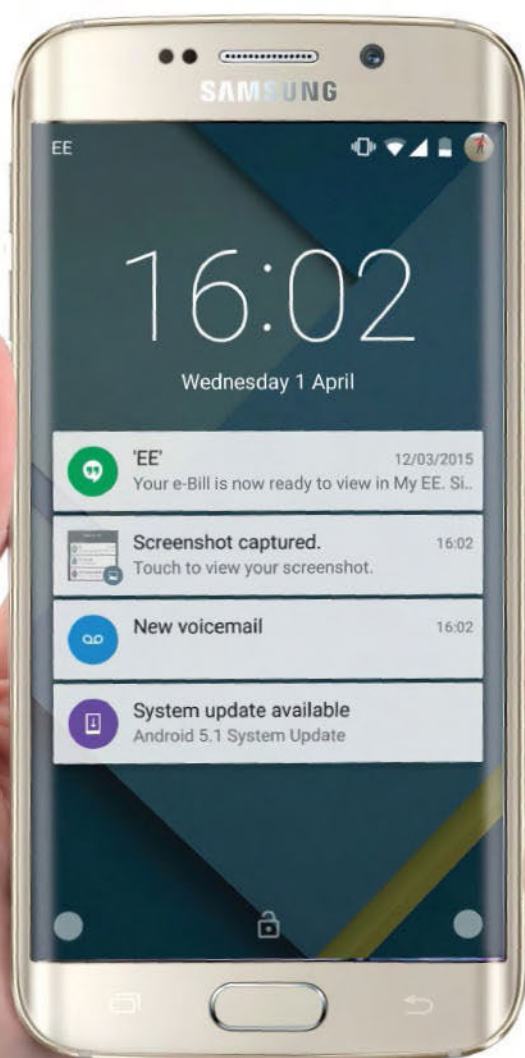
## 10: AnTuTu Benchmark

Don't be dazzled by the options in AnTuTu Benchmark. Tap the Test button on the main screen to get benchmarks for speed and graphics, before and after running the tweaks and scripts. These are numbers, of course, the real test is how gaming performance improves!



# Customise your Lollipop lockscreen

Change your lockscreen's left and right swipe shortcuts, and explore lockscreen replacement apps



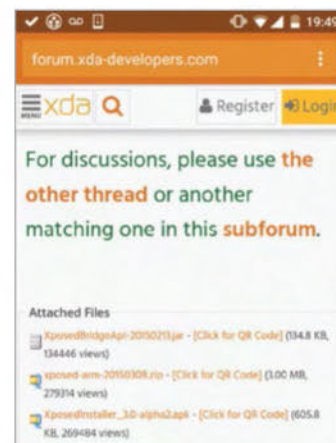
Android's lockscreen has changed a lot over the years. For the new Lollipop lockscreen, Google has got rid of the widgets and replaced them with notifications and two new shortcuts that launch the Camera and Phone apps.

On the surface, there may not seem much scope for customisation, but you can edit these two lockscreen shortcuts so that they launch apps of your choosing. To do this, you'll need to install the Xposed framework and then you should use the framework to download the 'Custom Stock Lollipop Lockscreen' Xposed module.

The catch is that Xposed for Lollipop is currently only available as an alpha, so it isn't as stable as previous Xposed releases, and there's a higher chance of encountering bootloops and other issues. This means that you must create a full system backup of your device before attempting this hack.

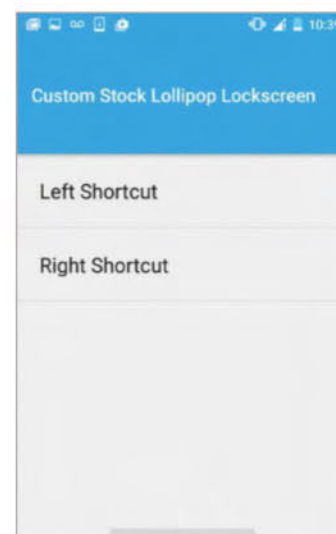
You'll need a rooted device running the latest Lollipop, plus a file explorer app such as ES File Explorer. This hack works the best on stock Android and other Android Open Source Project ROMs, although you may have some success with other custom ROMs.

If you want something more dramatic than a few simple custom shortcuts, you can always download a lockscreen replacement app. You'll find lots on Google Play – many are free and compatible with rooted and non-rooted devices. After showing you how to customise your lockscreen shortcuts, we'll then look at an example of a lockscreen replacement app.



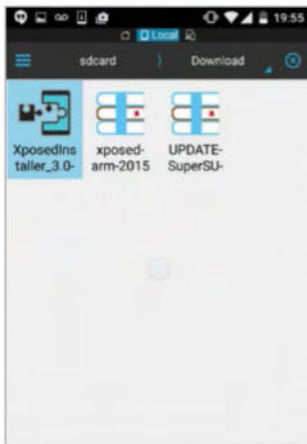
## 1: Download Xposed Framework

On your Android device, go to [bit.ly/1DLowEr](http://bit.ly/1DLowEr) and download the latest version of xposed-arm zip and the installer. Boot into your device's custom recovery. Select Install zip, go to your xposed-arm download and confirm you want to install this. Reboot your device.



## 6: Create your shortcuts

These two options refer to the swipe gestures that you can perform on the lockscreen. Tap either of these options and you'll see a list of all the apps installed on your device. You can then choose a new app that will launch whenever you swipe left or right on your lockscreen.



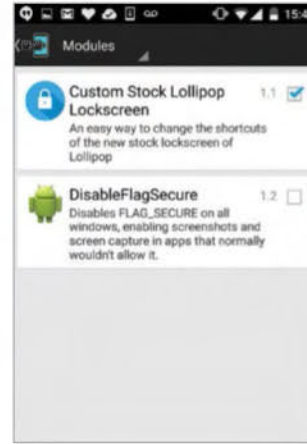
## 2: Install Xposed launcher

Use ES File Explorer to go where you downloaded the Xposed installer file. Tap it and confirm you want to install it. Open your app drawer and launch your new Xposed Installer app. Tap Download, search for 'Custom Stock Lollipop Lockscreen'.



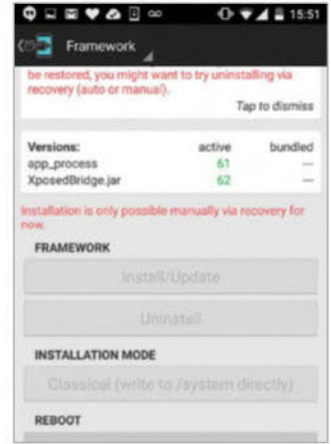
## 3: Get Lollipop module

Tap the 'Custom Stock Lollipop Lockscreen' module. Read the information, then swipe right to the Versions section, tap Download and then Install. Once installed, open your notification drawer and you'll see an 'Xposed module is not activated' notification.



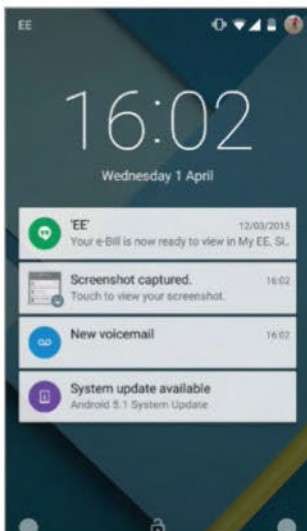
## 4: Modules screen

Tap the notification. This takes you to the Modules screen which lists all the Xposed modules that you have installed. Tap 'Custom Stock Lollipop Lockscreen' so the box is selected, and you'll see a popup telling you that you need to reboot before this module becomes active.



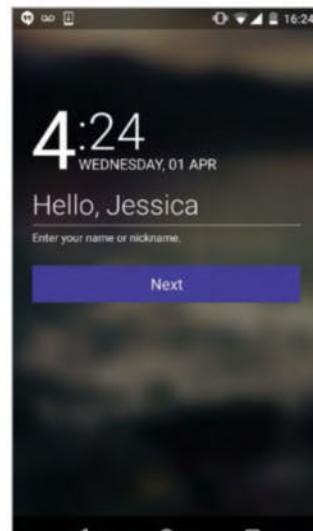
## 5: Reboot your device

In the toolbar, tap Modules and select Framework from the drop-down menu. Tap the Soft reboot button and let your device reboot. Now open the app drawer and launch your new Custom Stock Lollipop app. This has two options: Left Shortcut and Right Shortcut.



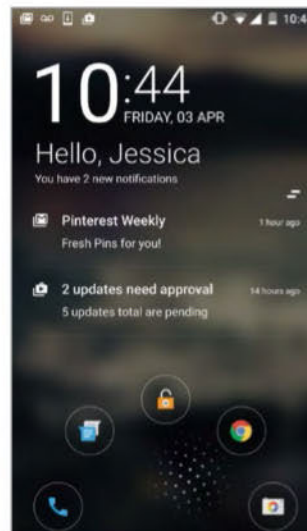
## 7: Test your shortcuts

Once you've created your shortcuts, go to the lockscreen to give them a little test. You'll notice that the icons in each corner of the lockscreen are the same, even though they now link to different apps. Reboot your device and the icons will become white dots.



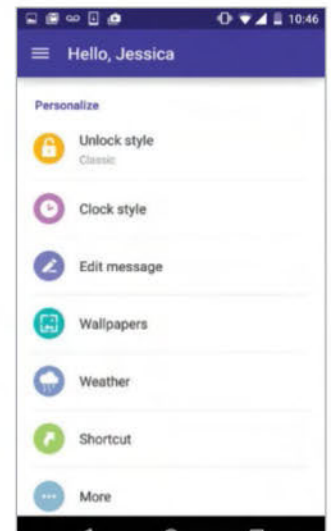
## 8: Something different

For something different, you could try a lockscreen replacement such as Hi Locker. This app combines the Lollipop lockscreen with features from earlier versions of Android. Download it from the Play store, then launch it and enter your name when prompted. Tap Next.



## 9: Test your lockscreen

Tap 'Turn on "Notification access"' and select Hi Locker. Read the disclaimer and tap OK. To see the app in action, go to your lockscreen. To dismiss a notification, swipe the notification to the left. To launch the app relating to a notification, swipe to the right.



## 10: Customise Hi Locker

Hi Locker has options for customisation, so relaunch the app and scroll to the Personalize section. Here, you can make changes such as choosing a new clock style or wallpaper, and editing the message on your lockscreen (it will be 'Hi Name' by default).



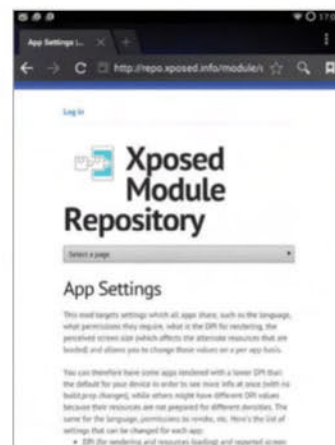
# Run apps in tablet mode on your phone

Get a better viewing experience by tweaking how different apps display on your screen

One thing that a lot of people count against Android is the almost limitless number of screen sizes that support the OS. It's a by-product of the open source nature of Google's operating system and means some apps look better on your tablet than they do on your phone. However, if you've got a rooted device and you're not averse to a little bit of tinkering, you can fool apps into thinking that they're running on a tablet rather than a phone. It takes a bit of faffing around to actually get it to work, but if you're willing to persevere, you can set any app you'd like to run in its native tablet version on your phone.

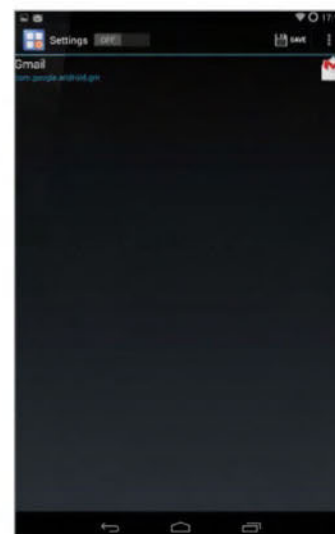
**"You can set any app you'd like to run in its native tablet version on a phone"**

You'll need a rooted device and you will need to download and install the Xposed Framework Installer too. Other than that, you'll just need ten or so minutes to get things up and running, as there are a few reboots and other tweaks that you need to perform to set up the required module. Essentially, you're playing around with the inner workings of the apps on your phone to tell them to run at a different DPI, conning them into revealing all the info they show on a tablet on your smaller screened device. It's not too tricky and once you've figured it out, you'll be able to alter apps in a few taps.



## 1: Get the right module

Download the right Xposed Framework Module to get things started. On your phone, head to this url: [tinyurl.com/nqtql87](http://tinyurl.com/nqtql87) and then scroll to the bottom of the page to start downloading the APK file. It will work quickly and shouldn't take more than a minute to fully download to your phone.



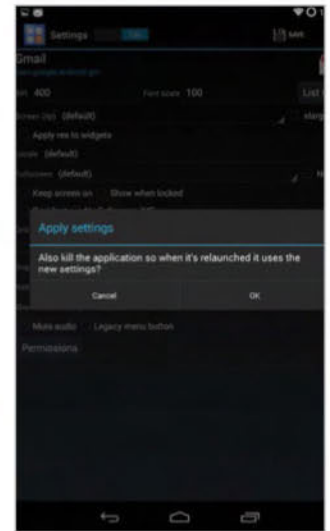
## 6: Work with Gmail first

A really good place to start experimenting is with Gmail, as it definitely has a native tablet version and a native phone version. Tap on it in the list and you will be taken to this screen. Now you need to tap on the button next to the Word Settings that is currently marked as Off.



## 5: Load the list of apps

When you first open the app, you'll see a long list of all the apps that you have installed on your Galaxy. It might take a few seconds to populate, depending on how many apps you have – the more you have the longer it will take – so be patient and let it run its course completely.



## 10: Kill the changes

If you ever want to set the app back to its default appearance, all you have to do is head back into the App Settings and toggle the Settings switch back to off. Remember though, that not all apps have both phone and tablet versions – you can't add what isn't already there.

# Freeze unwanted apps and bloatware

## Freeze and uninstall manufacturer bloatware using Bloat Freezer

The Galaxy range of tablets and phones come with some of the most advanced mobile software available on the market: Android.

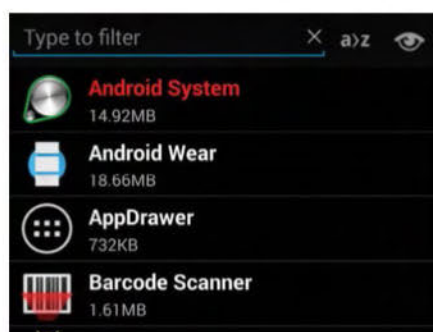
However, this also means that all Galaxy devices come with pre-installed apps and software with their Android version. You may find some of this manufacturer bloatware useful, but chances are at least some of it will be unwanted.

You can't remove bloatware – named for how they fill up your phone and soak up your storage – in the same way you uninstall regular apps that you chose to download onto your Galaxy phone or tablet. But if you've chosen to root your device, you can use Bloat Freezer to uninstall manufacturer bloatware, and reclaim your Galaxy's precious internal storage.

As tempting as it may be to remove all unwanted apps and bloatware, this could cause your device to stop working correctly – you may also stop receiving 'OTA' updates.

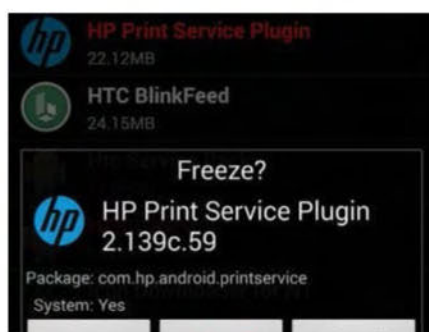
The good news is that Bloat Freezer doesn't just uninstall bloatware, it can temporarily freeze it too. Then if your device starts acting strangely, you can restore the bloatware by 'defrosting' it.

## Bloat Freezer | Rid your Galaxy of bloatware



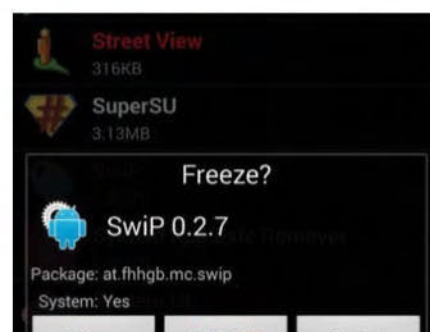
### 1: Purchase Bloat Freezer

Download Bloat Freezer from the Google Play store (£0.86). Launch the app and grant it super user permissions. You'll immediately see a list of all the apps and software installed on your device. Frozen apps have a line through them, while system apps are displayed in red.



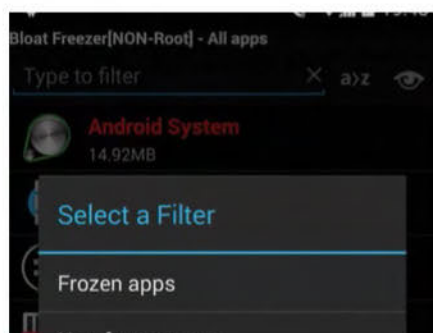
### 2: Freeze unwanted bloatware

Scroll through the list. When you see an item you want to freeze, simply tap on it and then select Freeze. It's a good idea to only freeze one item at a time. Then if your Galaxy device does start misbehaving you'll know exactly which item you need to defrost.



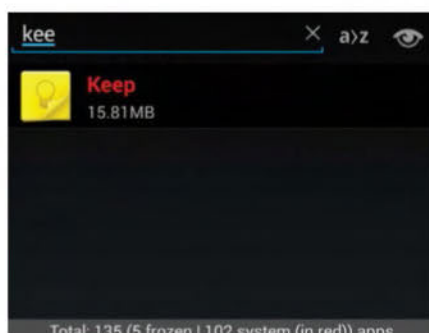
### 3: Uninstall system apps

To uninstall a system app, you can find it in Bloat Freezer's list, tap it and select Uninstall. If you remove system software and then want to reinstall it later, you can flash a ROM that includes this software or you can search for the necessary APK files online.



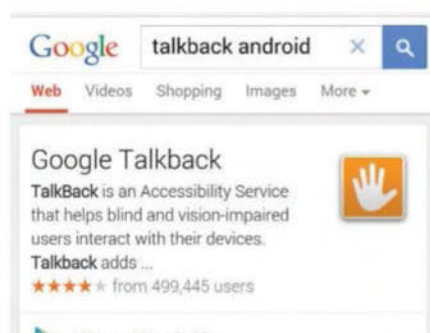
### 4: Apply some filters

Bloat Freezer has filters to pinpoint specific apps and software. Tap the eye icon and then choose a filter. You can also toggle between viewing your device's contents in alphabetical order or viewing your most frequently accessed apps first, by tapping the A>Z icon.



### 5: Direct search

If you're looking for a particular app, you can search for it directly by tapping the 'Type to filter' field and then typing its name. As you type, Bloat Freezer filters your content automatically, so the item you're looking for will usually appear before you've finished typing.



### 6: Do your research

The golden rule of a rooted device is to never alter anything you don't understand. If you're unsure what a particular app does, then you should either leave it alone or do some research. You can usually get some helpful answers by entering the item's name into Google.



# Easily backup individual partitions

Save yourself time and memory on your device, by creating backups of specific files

When you're modifying your Android device, you should always create backups, particularly before performing larger customisations such as flashing a new ROM. Although it's sometimes necessary to perform a complete backup, if you're making smaller changes to your device then a full backup isn't always necessary.

Partitions Backup & Restore is a free app that allows you to create backups of specific partitions on your Galaxy tablet or phone, such as the files that boot your phone, your device's operating system, or your user data. This app detects all the partitions on your device and enables you to make a backup of each partition individually.

Partitions Backup & Restore requires a rooted device, so it will take a little bit of preparation. If you want to use this app to restore a partition, you'll also need to have a file explorer app installed on your Galaxy device, such as the ES File Explorer, which is also available as a free download from the Play store.

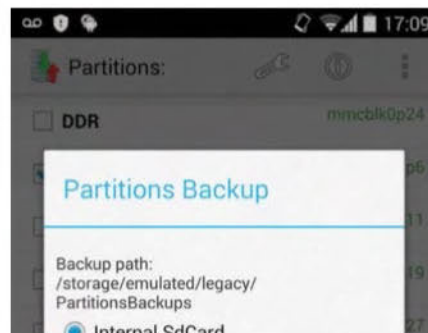
## Partitions Backup & Restore

## Create selective backups



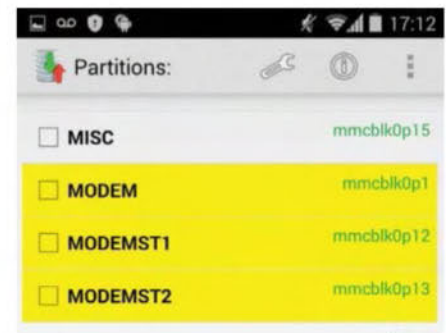
### 1: Get Partitions Backup & Restore

To get started with this tutorial, you need to install Partitions Backup & Restore from the Play store. Once the app has downloaded, launch it and grant Superuser permissions. Then choose where your backups will be stored and in what format, so tap the wrench icon in the toolbar.



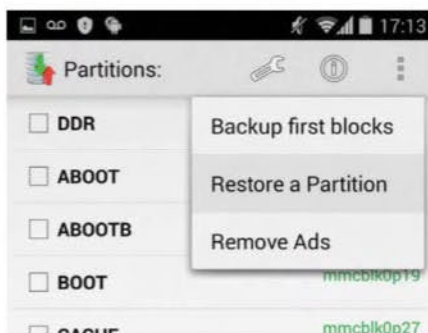
### 2: Choose format and location

Next, you will have to choose if you want backups stored on the external or internal SD card, and then pick your preferred format. Raw is the usual format but Compressed backup saves space. On a Samsung device, TAR archive has backups you can restore via Odin.



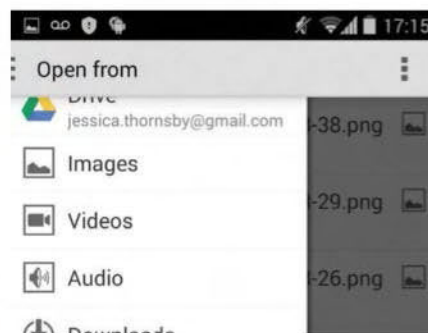
### 3: Make your backups

On the main menu tap all the partitions you want to backup. Tap the blue circle and select Backup. Once the backup is complete, you'll see a message that the files have been saved to a new 'PartitionsBackups' folder. For extra security, copy these files to your computer.



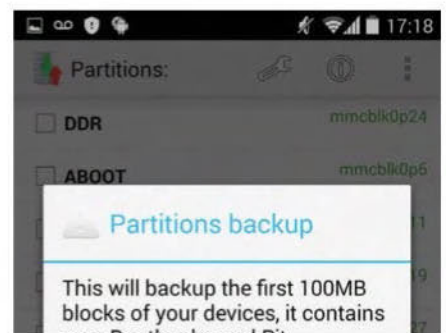
### 4: Restore a Partition

You can also use the app to restore a partition, as long as the file is a Raw partition image with the .img extension. To restore a partition, tap the three-dotted icon in the app's top-right corner and select 'Restore a partition.' Read the warning and then tap OK.



### 5: Navigate to PartitionsBackups

Head over to the side-menu, then go ahead and select your file explorer app and go to the 'PartitionsBackups' folder. Tap the file you want to restore. It's useful to backup the first 100MB of your device's internal memory to help you recover a hard-bricked device.



### 6: Backup first blocks

Tap the three-dotted icon and select 'Backup first blocks.' If you get a hard-brick, copy the backup file to an external SD card, insert it into your device, copy the bootloader across, boot into download mode and then download the PIT, PDA, CSC and PHONE files.

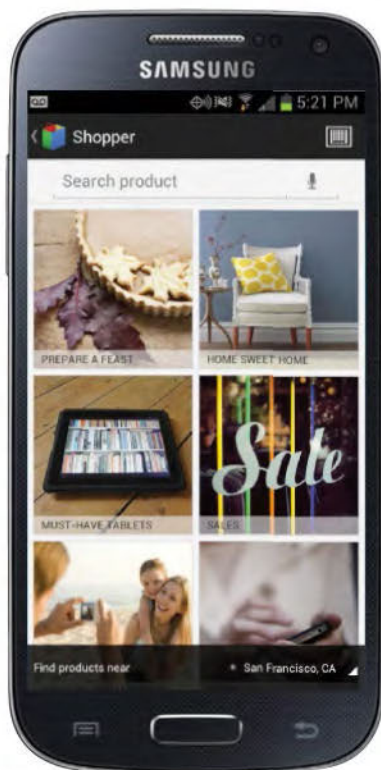


# Essential Apps



With over 1,00,000 available apps, the Google Play Store is not far from knocking Apple's App Store off its hallowed pedestal as the go-to place for the best apps. Almost all of the popular favourites are now available on the platform, developers are looking to Android to expand their consumer base, and its open source nature means it's easy for people to get their apps onto the store. But, as always, there are apps at either end of the quality scale, so in this feature we will show you the top apps available for you to download today for your Samsung Galaxy device.



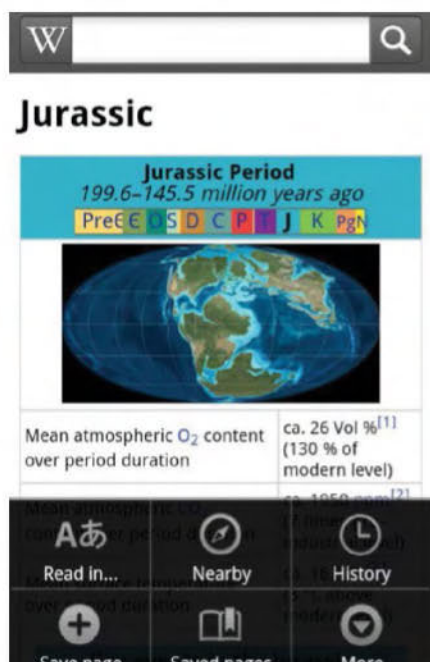




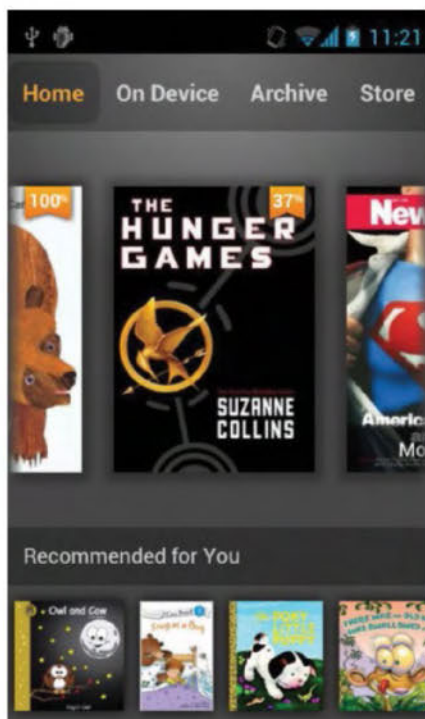
# Books & Reference

The internet is the greatest encyclopedia the world has ever seen, with a tremendous amount of accumulated knowledge being added every day. The rise of apps means that we now have greater access to this information than ever before. No longer do you have to sift through raw and unappealing data or attempt to struggle to read out-of-print classics on ill-fitting web pages or as PDFs. With more and more readers adopting eBooks over traditional print, the way information is disseminated has been radically transformed. As a result, eReaders are now big business, as demonstrated by Amazon and Google's heavy investment in the industry to try to control the lion's share of this lucrative market. Hopefully this high level of competition will continue to keep eBook prices down and encourage creative new innovations, such as we've seen from the development of improved in-app searching and the ability to share books across multiple devices.

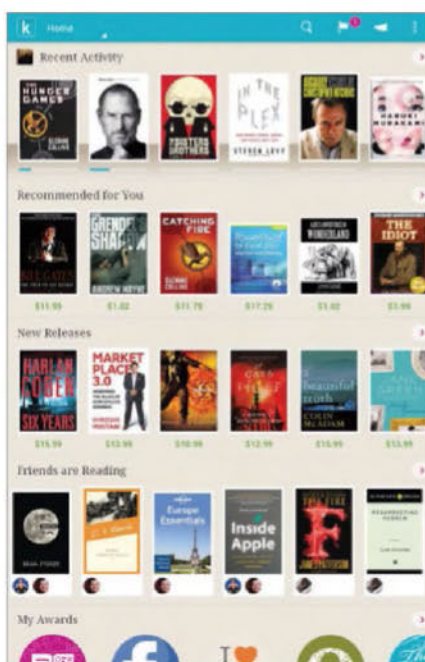
"The way information is disseminated has been radically transformed"



■ Wikipedia – a trusted source online, now a tap away



■ Explore a huge range of books on Kindle, from the latest releases to out-of-copyright classics



■ Explore Kobo's 1.8 million free eBooks

## 5 essential apps

### Kindle

**Price** Free **Developer** Amazon Mobile

Over a million books and magazines are available on Kindle, and thousands of them are free. It's a testament to the Play Store that this doesn't make Kindle exceptional in itself. However, the app has some impressive extra features. Simply tap and hold a word to view its definition in the built-in dictionary or use Google and Wikipedia links to get re info. Whispersync also allows you to synchronise bookmarks, notes and the last page you read across multiple devices.

### Wikipedia

**Price** Free **Developer** Wikipedia Foundation

Wikipedia is the community-driven online encyclopedia, containing 20 million articles. Wikipedia for Android is more than just a gateway to the website. You can scan for articles related to an area, making it a great travel guide when abroad. All articles can also be saved to read offline. With the latest app update, you can also edit pages while on the go, making this a complete app with a seamless overall experience.

### Dictionary.com

**Price** Free **Developer** Dictionary.com, LLC

One of the world's biggest internet-based dictionaries also holds the record for being the biggest dictionary available to Samsung Galaxy users. It has a remarkably intuitive search system to help find the correct spelling of some troublesome words and provides full voice recognition to help words with difficult pronunciations. There are also official expansions of the app that delve into the world of synonyms and antonyms that are certainly worth a look.

### Kobo

**Price** Free **Developer** Kobo Inc

One of the very best eBook libraries around, Kobo has more than two million titles on offer, with 1.8 million of those being free to download. Add to this its cool social features like reading stats that you can compare with friends, and the ability to enter debates on pages and you have bookworm heaven.

### Goodreads

**Price** Free **Developer** Goodreads

This app lets you tap into the world's largest social network for readers. Through its simple and accessible interface you can discover plenty of great new literature from the most promising authors of tomorrow. Over 12 million books are featured in Goodreads' database, so you'll never find yourself short of a new book to get stuck into.

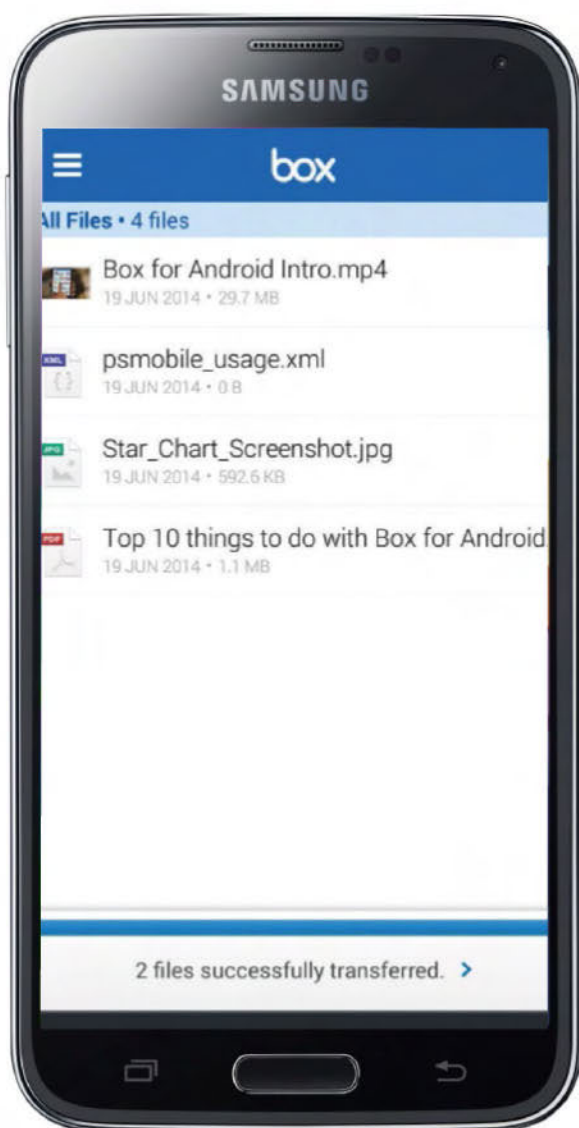


# Business

Mobile phones and big business have been synonymous since the first portable phones came out in the eighties. However, with the right apps on your Galaxy device, smartphones don't just allow you to speak to a client wherever you are. It's even possible to carry your very own portable office suite in your pocket. Increasingly sophisticated programs mean you can open and edit word documents, calculate profit and loss in spreadsheets and work on presentations - all from your phone.

If you don't want to eat up your smartphone memory with desktop-size files, you can also use remote access apps to view and edit the files on your work computer from your device no matter where you are.

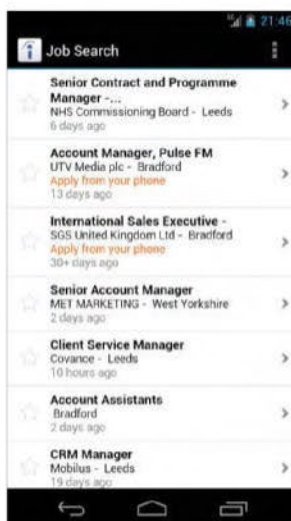
Other business apps make the most of your smartphone's other capabilities - for example, to find business clients on the internet, or photograph your receipts so you have proof of purchase. Read on to discover the top five apps we think could give your business the competitive edge.



■ Upload your media files in Box



■ Remotely access a computer with LogMeIn



■ Apply for jobs from the comfort of your device with Job Search

## 5 essential apps

### Quickoffice Pro HD

Price £3.74/\$4.99 Developer Quickoffice



Create, edit and share Microsoft Office documents on your Galaxy device using Quickoffice Pro HD. The ability to open and edit Word, Excel and PowerPoint files, as well as PDFs, really adds an extra dimension to your smartphone beyond communication and browsing the internet. The app also supports Google Docs and the file manager works seamlessly with your email attachments, locally saved files and cloud storage accounts, so you have a complete office suite no matter where you are.

### LogMeIn Ignition

Price £20.14/\$29.99 Developer LogMeIn



LogMeIn Ignition for Android lets you remotely access your Mac or PC. While the hefty price tag will put many off this app, it is one of the most robust of its kind out there. In addition to a polished interface and reliable connection, LogMeIn allows you to connect with more than one computer and offers impressive navigation and control over your desktop, even allowing you to make Ctrl+Alt+Delete commands.

### Box

Price Free Developer Box



Adding to the choice of cloud storage apps available is Box, a one-stop place for storing all your files, big or small. Upload speeds to Box are surprisingly quick and once added to the server, you'll still have full access to the files on any Box account on your phone, tablet or desktop computer. There's also a helpful tutorial included if you're new to using cloud storage on your device and syncing between multiple personal computers and devices.

### Job Search

Price Free Developer Indeed Jobs



A fantastic aggregator of content when it comes to finding a new job, Job Search brings together information from jobs boards, recruitment agencies and company websites from around the world. The app also allows you to create a CV so you can apply for jobs instantly and within the app should you find that dream position that you've been looking for.

### Google My Business

Price Free Developer Google Inc



If you are starting up a business and want to get the word out there then this app helps you connect with your customers through Google. Through this app you can keep your business info updated through Google's Search and Maps services, share news and images and read and respond to customer reviews.

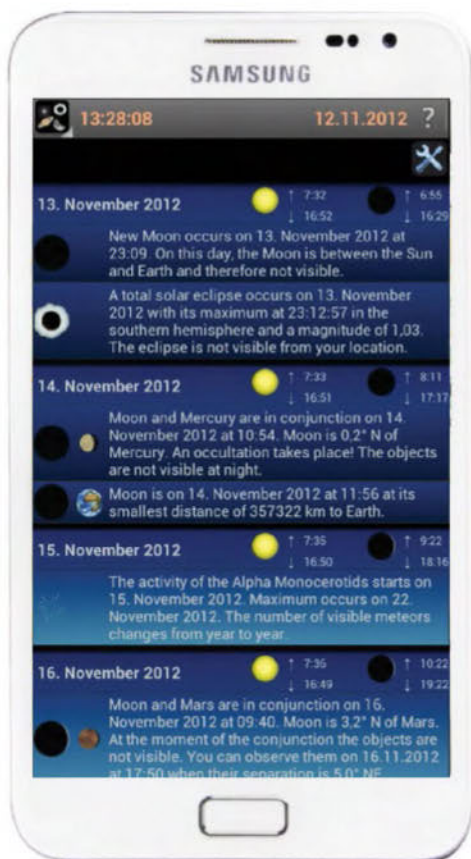


# Education

As mobile devices become more integrated into classrooms, educators and students are looking for new ways to apply them to the learning process because these devices can add a new dimension to the subjects. Applications on all of these devices can

help automate current classroom (or out-of-the-classroom) processes and present new ways to learn that have previously been unexplored. As we know, it is sometimes the way that a person learns new information itself that affects how well they are able to retain it. Technological progress has made it possible for children and adults alike to learn from almost anywhere and Android is no exception. Whether students need help defining a word, locating the lumbar spine or practising French vocabulary, there's almost always an app for that. Because of the imaginative methods employed by many of today's developers, the innovative methods on offer provide fresh impetus to even the most staid of subjects.

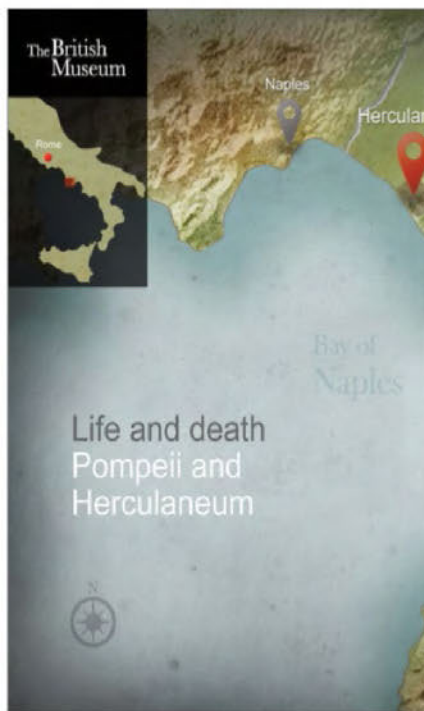
“Technology has made it possible to learn from almost anywhere”



■ Create beautiful sketches using the How To Draw app on your Galaxy



■ Ask a question about any subject and WolframAlpha will answer it



■ Relive history with the Pompeii and Herculaneum app

## 5 essential apps

### Mobile Observatory

Price £3.49/\$4.49 Developer KreApp Software



Find out more about the stars and planets around you with the Mobile Observatory app. There's a wide range of information regarding individual stars and their exact locations, as well as a guide to each planet. Some of the scientific jargon is a little daunting, but there's no doubt you'll learn something new with this app after you've really played around with its features for a while.

### Pompeii and Herculaneum

Price £1.99/\$2.99 Developer British Museum



Released to celebrate a huge exhibition at the British Museum, Pompeii and Herculaneum is an interactive app that details the different aspects of life before and after the eruption of Mount Vesuvius. There are maps and video clips as well as artefacts that form part of the real exhibition all on show here, all forming a great history app that you can enjoy on your Samsung device.

### TED

Price Free Developer TED Conferences



TED is filled with various keynotes and speeches from some of the world's most enterprising people. No matter what your interests may be, TED covers a wide range of categories, so you're guaranteed to find something of interest. Each speech varies in length and you can download them on to your phone or tablet to watch whenever you want. While watching a keynote, check out the discussion feature that lets you see what other people make of it.

### How to Draw – Easy Lessons

Price Free Developer ArtelPlus



Learn to draw a variety of animals and faces with this instructional app. Using your fingers or a stylus, you can draw directly onto a guide, viewing your sketches on top of the guide or viewing them as separate layers, like with tracing paper. Add colours, use different brushes and save your favourite creations.

### WolframAlpha

Price £2.48/\$3.99 Developer Wolfram Alpha



Unlike Google, WolframAlpha computes an answer rather than providing a list of documents or webpages that might contain the answer. Simply type a word, phrase or question into the app and it will analyse it and give you an exact answer, which might take the form of an article, graph, table or illustration.



## 5 essential apps

### IMDb

Price Free Developer IMDb

If you need information about a specific movie, TV show, actor, designer or music composer, then look no further than this app. IMDb is the ultimate catalogue of the TV and movie industry, allowing you to discover new things to watch. There's a dedicated forum for you to discuss topics with other members. You can also leave reviews of your favourite and worst movies and create playlists of your most recommended films that other people should watch.

### Netflix

Price Free Developer Netflix, Inc

With the array of films and TV shows getting more expensive every week, Netflix is steadily becoming a much more inviting proposition than conventional TV by allowing you to watch what you want, when you want to. As the app is available on so many different devices, you can also start watching on one and finish watching on a different one later.

### StumbleUpon

Price Free Developer StumbleUpon

StumbleUpon has been a popular social-bookmarking website for years and the app follows the same premise, providing you with entertaining webpages, videos and photos. As you Like and Dislike randomly generated webpages, the app learns your interests and recommends content for you. Webpages can be set as favourites so you can come back to them any time. Unfortunately, the search engine doesn't filter webpages not optimised for smaller screens, sometimes making for awkward reading.

### Flixster

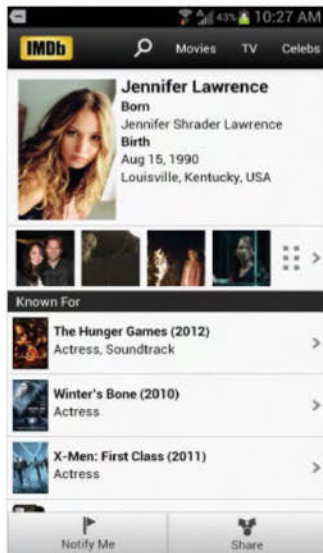
Price Free Developer Flixster Inc.

Browse the cinemas in your local area to find the times and showings of movies. In some cases you can even book advanced tickets to see the movie and even choose the seats that you want to sit in. Flixster also includes a full streaming service of certain movies for a small subscription fee.

### Onion News Network

Price Free Developer The Onion

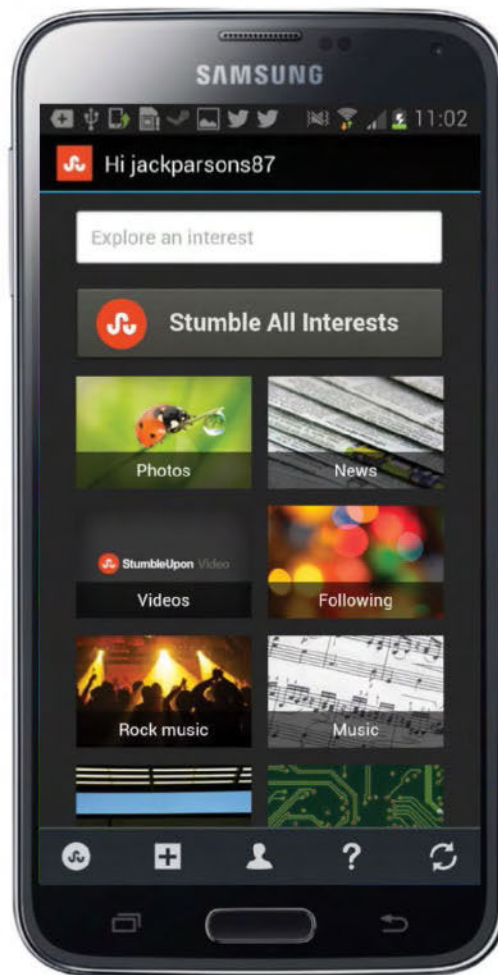
Watch satirical news stories from the popular website The Onion. While it is a shame that this app only includes video content and doesn't make use of the website's many written articles, you are able to sort by show, view editor's picks, access popular segments and search The Onion's archives for spoof stories from yesteryear.



Find out about your favourite movies in IMDb



Have a laugh with The Onion



"Many apps are available for free, or pocket-money prices"

# Entertainment

There's never an excuse to be bored when you own a Galaxy device. That's because there's a nearly never-ending selection of fun apps to be discovered in the Entertainment section of the Google Play Store. Many are available for free, or at least available for pocket-money prices, with more being released all the time.

There are some people who dismiss entertainment apps as childish due to the frequent ranking of Tamagotchi-style animated animals or face-changing 'booth' apps, such as Fatbooth and UglyBooth, in

Google Play's Top Paid billboard. However, these apps, along with innumerable soundboard apps, can inject a little frivolity into an otherwise mundane day.

For those that need a little more than activity than reading jokes, the Entertainment section also offers some great portal apps that give you a direct link to your favourite websites, including IMDb and The Onion News Network. Other apps actually aid you in seeking out real-life enjoyment, such as looking up movie times and reviews, or finding a concert near you.



## 5 essential apps

### Barclays PingIt

Price Free Developer Barclays Bank



When it comes to convenience, one of the first apps that should spring to mind is Barclays PingIt because of the way it completely removes hassle from banking transaction. The app makes it possible to essentially send money via SMS using just a mobile number. It's even possible to add messages and pictures to your transactions for that more personal touch. The beauty of this app is that it means your account is never beyond your reach.

### My Budget Book

Price £1.49/\$2.29 Developer OneTwoApps



See your balance on the opening screen and track all of your earnings and expenses. Filter data by months, years or financial quarters, sort transactions by category and create graphs to see where your money is going. You can also take action managing multiple accounts and make transfers in-app. With access to so much sensitive information, the app also comes with an optional password and allows you to back up files for safekeeping.

### PayPal

Price Free Developer PayPal Mobile



Use the PayPal app to manage all your online payments you make on your various credit and debit cards. The app acts as a thorough account manager allowing you to distribute money between your accounts and track the history of payments you've received and sent. Its best use, however, is linking it to your eBay account to create a flawless payment system that you can access and use time and time again.

### Google Finance

Price Free Developer Google Inc.



As with any Google app, you're going to get brilliant all-round functionality and Finance is no different. Find the latest stocks and share prices with constantly updating charts and read about what's making the latest headlines in the world of global finance.

### Currency Converter

Price Free Developer Pocketools.com



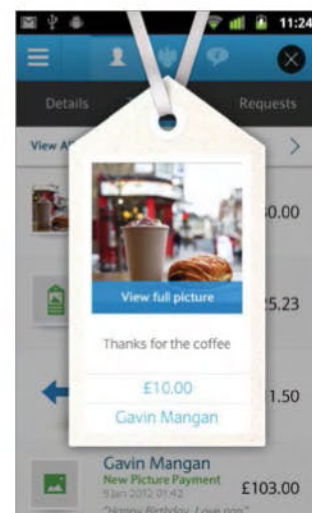
Check the exchange rate of the world's currencies with this informative app. As well as it providing a basic conversion, you're able to set a preferred list of currencies for quick use. You can also see a graph of every currency's value over time, ranging from up-to-the-minute readings through to the last five years.



■ Make quick conversions with the Currency Converter app



■ Manage your accounts and make money transfers with My Budget Book



■ Barclays PingIt removes the hassle from banking transactions

## Finance

Managing your money shouldn't get in the way of living your life. That's why personal finance apps are such a natural fit for Android. They let you track your stocks, convert currencies, calculate how much you owe and pay your expenses – all on the go. The best apps are those that take advantage of Android's finger-friendly interface or features such as location-awareness. For example, GPS or Wi-Fi can be helpful in finding the way to

the nearest ATM. As so many financial apps are developed by banks, a lot are free or available for a nominal charge, so there's little to lose by trying them. Keeping track of your money can easily become a daunting task, but we have some recommended apps here that range from delivering up-to-the-minute market news, to managing your budget on the go, converting currency, even just helping you split restaurant bills fairly between friends.



## 5 essential apps

### Minecraft - Pocket Edition

Price £4.99/\$6.99 Developer Mojang



The desktop epic has made a brilliant mobile port and has resulted in Minecraft's following growing even more. This is still very much a full version of the game, just scaled down for mobile devices, so you still need to build up your world and of course watch out for zombies when night falls. There's also multiplayer options so you can take on friends and other players from around the world. A great way to pass a few hours – or more!

### Temple Run 2

Price Free Developer Imangi Studios



The successful follow-up to the original Temple Run has been a massive hit and showcases what Android gaming is really capable of. This time around you're still trying to escape with the treasure but need to navigate new treacherous maps. There's also a great unlock system that lets you buy new characters and power ups that you can use on your mission.

### The Simpsons: Tapped Out

Price Free Developer EA Swiss Sarl



The Simpsons is the latest franchise to release a tie-in game to its popular TV series. The game tells the story of Homer accidentally setting off a nuclear explosion in Springfield and it becomes your job to rebuild it how you see fit. It can take a while to get going, but you'll soon meet all your favourite characters from The Simpson's brand and even some of the original voice actors too. This game is both addictive and brilliant at the same time!

### Hitman: Sniper

Price £3.99/\$5.99 Developer SQUARE ENIX Ltd



A neat spin-off of the popular console games, Sniper places our slap-headed hitman into a fixed position shooting game set in the picturesque surrounds of Montenegro. With a steady aim and precision timing you have to take out a selection of targets from great distances. There are over 150 missions to nail and some great new kit to unlock.

### Angry Birds Star Wars

Price Free Developer Rovio



The Angry Birds journey to a galaxy far, far away. Recast as the Rebels taking on the Imperial Pigs, you can use the Force to move objects and lightsabers in environments resembling the planet Tatooine and the Death Star. However, beyond these mostly aesthetic changes, the game retains the same physics-based puzzles that made this franchise a phenomenon.



■ It's all about survival in Temple Run 2



■ Find all your favourite characters from The Simpsons



■ Take out the trash in Hitman: Sniper

## Games

With the power of a Galaxy device in your pocket, it's now possible to play the latest games at any time and in any place. Some true blockbusters await you in the Google Play Store, with action-packed shooters, edge-of-your-seat racers and addictive platformers available.

Of course, controlling these games with accuracy is key. Until you've played a game using touch-controls, it's hard to imagine how intuitive and easy it is. Puzzle and strategy games are easier to handle than ever before and it's possible to rearrange the on-screen buttons to accommodate the size of your device. With in-built accelerometers it's also possible to control games simply by tilting your device.

Here we've rounded up what we think are the best five games currently available for Android devices. Some can be completed in mere minutes, making them perfect for commutes or long queues, whereas others are focused, lengthy titles that offer unlimited hours of fun.



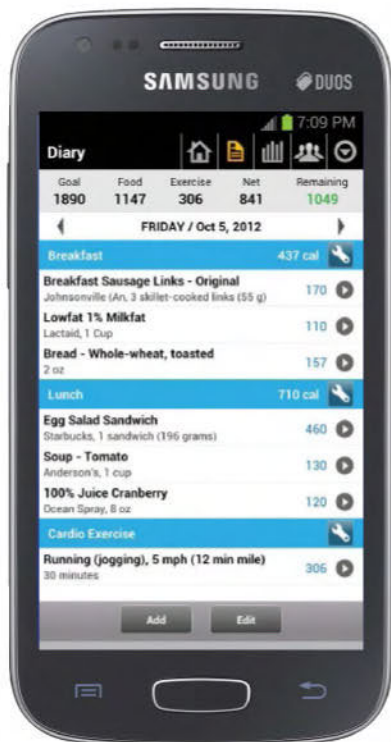
■ This pocket edition is still very much a full version



■ Fire Angry Birds at the Pig Star in this franchise cross-over



# Health & Fitness



■ Keep track of your diet using Calorie Counter



■ Flee the undead in jogging game Zombies, Run!

Galaxy devices are packed with clever technologies that can aid in exercise and improve your health. The GPS can be used to track your route and distance in real-time, the web connection can compare food nutrition, the media player can support instructional videos and the camera flash can even monitor your heartbeat.

## “Get into shape in next to no time”

Making the most of these features to improve your health is easy thanks to the myriad apps available on the Google Play Store. Nearly all are free, so there's no excuse not to download an app, put on your sports shoes and get running (or whatever other activity takes your interest).

We've scoured the Play Store and rounded up the five essential apps that can improve your health and fitness. You'll find reviews of a distance tracker, heartbeat monitor, all-in-one exercise guide and a calorie counter here. With these apps, you should be able to get into shape in next to no time.



■ Let Runtastic Pro monitor your progress

## 5 essential apps

### Calorie Counter

Price Free Developer FatSecret



A simple tool to find all the nutritional facts for the foods you eat. Use the barcode scanner to tell you the calorie content of food before you buy; the search function to look up your favourite foods, brands and restaurants, as well as health-conscious recipes. You can also log your eating habits, exercise routine and current weight into various diaries, the end result giving you a diet calendar to see your calories consumed and burned.

### Zombies, Run!

Price £5.49/\$7.99 Developer Six to Start



Have fun while getting fit with this running game. The premise of the app is that while you are out jogging, you will hear the guttural groans of the undead through your headphones creeping up behind you and you must outrun them to escape. With over 40 runs worth of content and a detailed story, if you don't find stats monitoring your workout motivational, Zombies, Run! is highly recommended.

### Endomondo Sports Tracker PRO

Price £3.99/\$4.99 Developer Endomondo



This tracking app allows you to monitor your duration, distance, speed and calories in a distance-based sport, such as running, cycling or walking. However, the feature that most sets Endomondo apart is its massive sports social network. Here you can interact with other users, compete against their fast times, share routes and workout routines, and even send friends pep talks for the next time they work out.

### Pedometer

Price Free Developer Tayutau



If you're not really into all of that running malarky but are still interested in keeping relatively fit then this neat app could be just the thing. Pedometer records the number of steps that you have walked and displays them alongside the number of calories that you have burned, the distance covered, walking time and speed. It's easy to use and a real eye-opener.

### Runtastic Pro

Price £4.29/\$5.99 Developer Runtastic



One of the very best fitness apps out there, Runtastic can monitor your progress in so many ways. You can see your pace as well as how you're performing against your goals. The app also contains voice feedback during exercise, and plenty of social content too.



## 5 essential apps

### Poweramp Music Player

Price Free Developer Max MP



Poweramp has undergone numerous updates over the years, but it's only recently we've been able to recommend it as an essential app for Galaxy users. As well as catering for most audio file types, even those pesky .m4a files, Poweramp can be synced with your existing music library so that everything is played without any buffering, but be patient as the syncing process does take a while to complete. For a more complete set of features, you should consider investing in the paid version of the app.

### YouTube

Price Free Developer Google



For those of you with Android OS 4.0 and up, the app for the world's most popular video-sharing site was recently updated. As well as the features you would expect from YouTube, such as watching videos and adding comments, you can now 'preload' videos, so the latest videos from your favourite channels will be queued for when you next have Wi-Fi access. Your phone now also works as a remote control, sending videos to be watched on your desktop.

### Lapse It

Price Free Developer Interactive Universe



Shoot your own stop-motion videos and edit them with this arty app. Lapse It is a free download that takes a snapshot every couple of seconds and then strings them all together into one complete time-lapse video. From here, you are offered a full editing suite, such as adjustable focus and white balance, apply filters, as well as the ability to trim videos. The Pro version is available by an in-app purchase and allows you to render videos up to 1080p.

### uTorrent

Price Free Developer BitTorrent, Inc.



If you're looking for a way to get torrent files on your device then you'll want to download the uTorrent download client. From here you can manage every torrent download and see an estimated time for when it'll be ready to use on your phone or tablet, whenever you might need it.

### Plex for Android

Price £3.21/\$4.99 Developer Plex



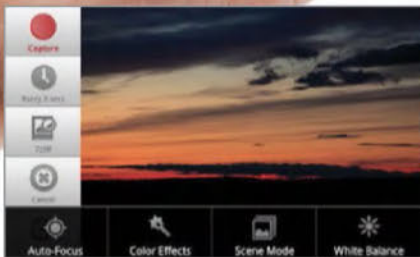
A great organiser for all your content, Plex allows users to sort all their video files so that they can be used in any of the Plex apps. In addition, the app is hooked up to a host of cool content providers like YouTube and Vimeo so you can always find new videos to stream too. This is a very handy addition to your app collection.

# Media & Video

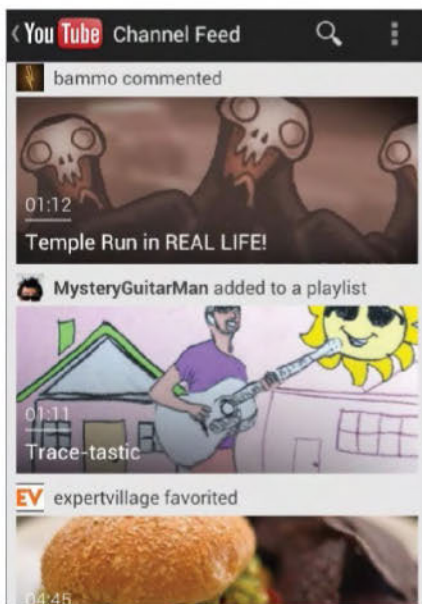
With a dizzying array of multimedia-based apps to be found on the Google Play Store, it's possible to have a never-ending stream of video entertainment on your Galaxy device.

As 3G and 4G networks support increasingly high-quality video streaming, services such as LOVEFiLM and Crackle allow you to watch the latest TV shows and movies on the go. Conventional broadcasters are also trying to get in on the action, with the BBC, Channel 4 and Sky all releasing apps to watch on-demand episodes and even live sports.

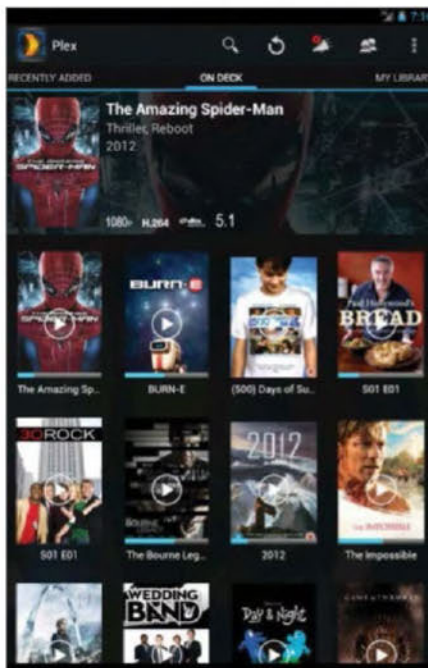
But the era of watching movies at home may not be over just yet. While there are many pretenders to the crown of video-sharing, YouTube remains the king. However, YouTube doesn't rest on its laurels and continues to innovate, as the recent overhaul of its app and introduction of 'preloading' technology shows. Creatives are also harnessing apps such as Kodak Cinema Tools and Photo Tools to make sophisticated videos of their own.



■ Create stop-motion movies on your device with Lapse It



■ As with the web version of YouTube, select from the top videos or search for something specific



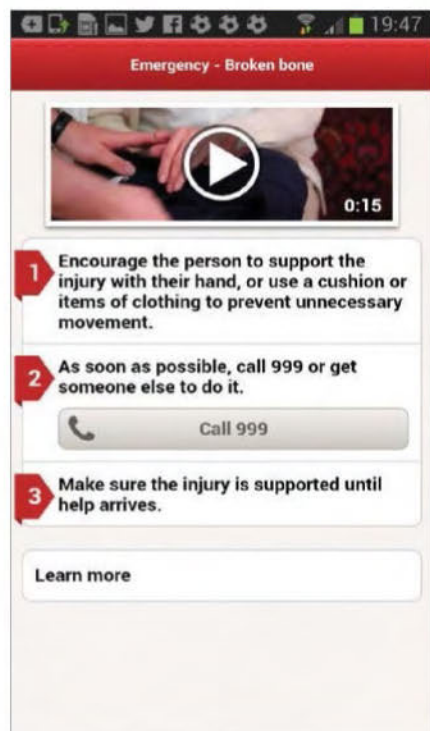
■ Plex allows you to sort and organise your video files



# Medical

Mobile medicine is a growing sector in the app market. Not so long ago, the mere suggestion that your phone could provide any sort of medical assistance was a joke or, at least, science fiction. However, the ever-growing processing power and memory of smartphones means your device can deliver large amounts of information quickly – ideal during a medical emergency. Some apps let you cut away images of muscle layers to see what lies beneath, while others offer an e-health record system or even a smartphone-based blood pressure monitor. Many of these medical programs can be downloaded and used for a bit of fun, or can be used for educational purposes, while others empower everyday people to make a real difference in the lives of others.

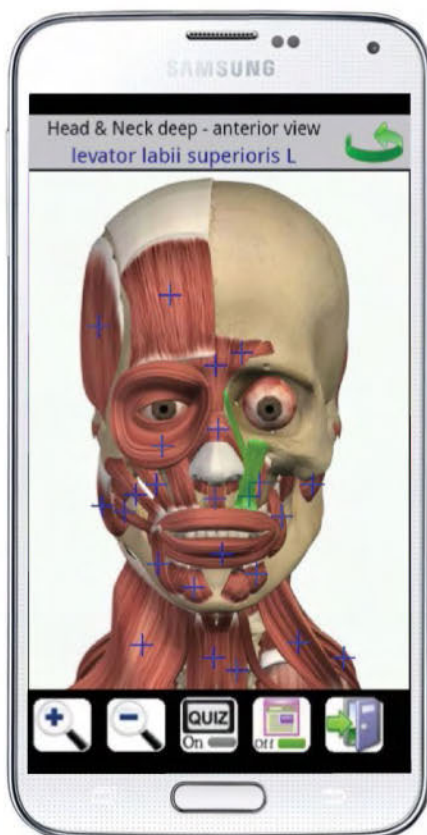
“Empower people to make a real difference to the lives of others”



■ Prepare for any medical emergency with First Aid



■ Get help and stop smoking with Easy Stop Smoking




■ Discover the inner workings of the body with Visual Anatomy

## 5 essential apps


### First Aid by British Red Cross

Price Free Developer British Red Cross

 Designed to be used in an emergency situation, this app is full of step-by-step videos on how to deal with everything from choking to hypothermia. Whereas these guides are quite short to see you through a crisis, the Learn and Prepare sections provide much greater detail to educate the user for future crises. The information is all hosted on the app itself, meaning no internet connection is needed, making it fast and easy to access and without the risk of the signal being lost when it is needed most.


### Visual Anatomy

Price £1.60/\$2.49 Developer Education Mobile

 Visual Anatomy contains 87 hi-res images of muscle/ligaments and the skeleton that can be pinch-zoomed and rotated to explore in detail, plus more than 750 features which can be interactively selected. Each feature has its own label and short description and there are several quizzes to test your knowledge. For more expert use, over 1,000 images from *Gray's Anatomy* can be downloaded and accessed offline.


### Easy Stop Smoking

Price Free Developer Hypnotherapist Direct LTD

 Stopping smoking is tough, but with the Easy Stop Smoking app you have a comprehensive program that guarantees you'll stop by the end of it. The app is split in to different parts that offer different methods to help stop smoking, all of which are done through hypnotherapy. You can alter the course to fit your needs and whether you've been smoking for just a few months or for a few decades, the help on offer is invaluable.


### NHSGiveBlood

Price Free Developer NHSBT

 Giving blood can make huge differences to peoples' lives and this app makes it even easy to donate some of your own blood to help others. It offer a simple and fast registration process and helps you look up convenient venues to donate at based on your current location.

### ICE

Price £2.99/\$4.99 Developer Appventive

 This invaluable app stores all your vital information in case something unfortunate happens to you and you need treatment. Users can input as much data as they like and even put in an emergency contact number as well.



## 5 essential apps

### Spotify

Price Free Developer Spotify



Spotify offers instant access to millions of songs, which you can either arrange as playlists or stream as a never-ending radio. The app is easy to use with various sliders to navigate the vast library of music and lightning-fast performance. As a bonus, each artist comes with a detailed biography and has built-in social networking with Facebook and Last.fm. Although Spotify is a free download, after 48 hours you have to subscribe to the premium service for all access.

### Shazam Encore

Price £3.59/\$5.59

Developer Shazam Entertainment



Ever heard a song but didn't know its name? Shazam solves this problem. Press the large button on the app's home screen when you hear a song you like. It will tell you the song's name, the band/artist, and a sample so you can verify the track. The app also provides lyrics, artist discography and tour information. The user interface is clunky, but the large buttons make it easier to use when you're at a gig/nightclub.

### TuneIn Radio Pro

Price £3.31/\$4.99 Developer TuneIn



Should you want to leave the song selection up to someone else, TuneIn gives users access to more than 70,000 radio stations on your device. So now you can listen to all your favourite shows whenever you like, and there is also a huge library of podcasts on offer as well, with more than two million currently in the app. TuneIn even contains live shows and concerts so pretty much all your listening needs are covered.

### SoundHound

Price Free Developer SoundHound



Another song identification app in SoundHound, but one that offers a great choice of features. After identifying a song, the app offers several streaming options enabling you to listen to the song whenever you want, for a small fee of course. SoundHound has a ridiculously detailed encyclopaedic knowledge of music, so give it a shot!

### Ultimate Guitar Tabs & Chords

Price £2.35/\$3.99 Developer Ultimate Guitar USA LLC



If you want to increase your guitar playing repertoire then this app boasts over 800,000 tabs and is updated daily to ensure that all of the latest songs are included. You will usually find multiple tabs for each song too, so you can try different variations to see what works.

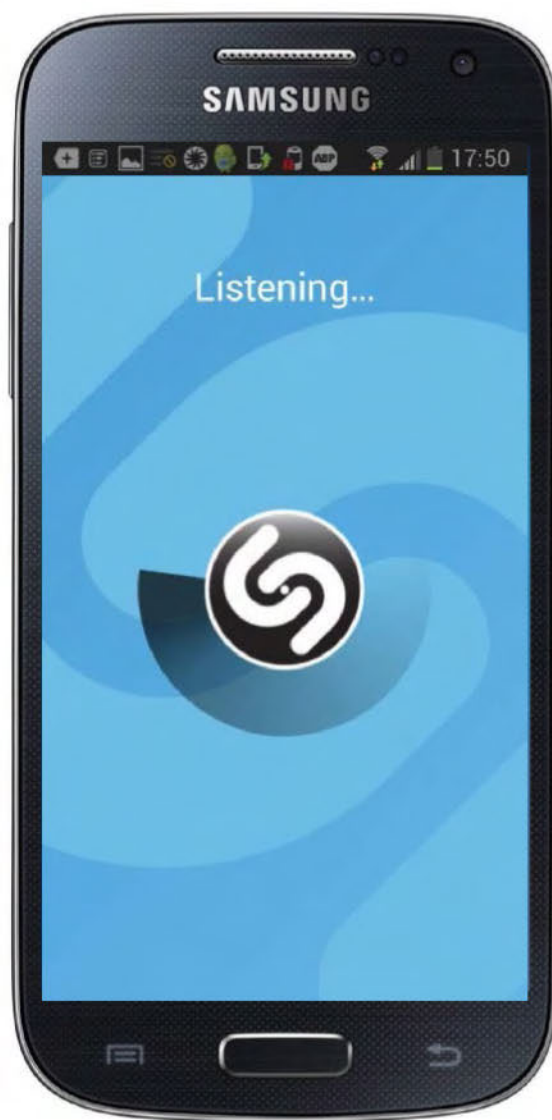
## Music & Streaming

The death of the music industry has been greatly exaggerated in recent years. While critics bemoan the demise of the physical record, business is booming in the Google Play Store.

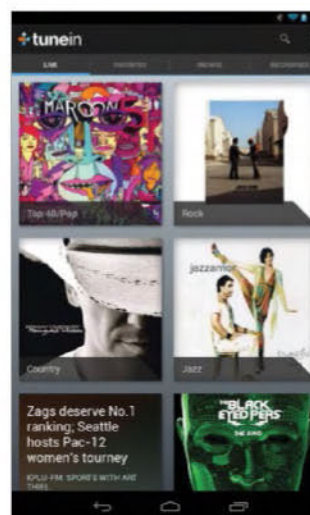
Due to limited storage space on your smartphone and a desire to enjoy music across multiple platforms, music streaming, rather than downloading, has emerged as the dominant way to listen to music in recent years. Android is at the forefront

with support for Amazon's Cloud Drive and Google Music.

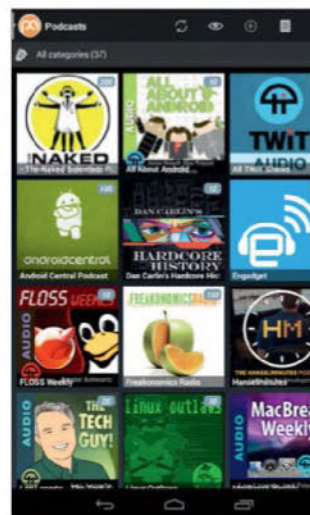
Tied up in licensing laws, the majority of music streaming costs money if you want unlimited access. Apps such as Spotify and Rdio are free to download and offer temporary access, before requiring you to sign up to a premium subscription. Other music apps such as Shazam or SoundHound make use of your device's microphone to identify unknown music.



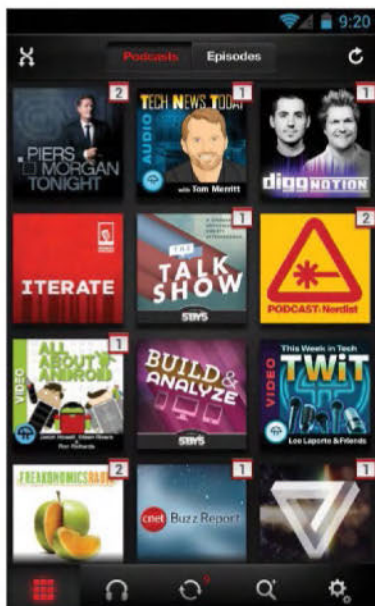
■ Identify unknown songs with Shazam Encore



■ Access thousands of stations with TuneIn Radio Pro



■ Create your own playlists of your favourite podcasts with ease



Find new podcasts with Pocket Casts

Explore the world of Android with Android magazine



## 5 essential apps

### Pocket Casts

Price £2.70/\$3.99 Developer shiftjelly



Pocket Casts is simply a beautiful podcast manager app, that lets you subscribe, listen and enjoy a wide range of podcasts no matter where you are. One of the cleverest features it includes is the wireless backup that creates a digital version of your podcasts just in case you lose or misplace your phone. Although there are plenty of podcast-based apps currently on the Google Play Store, not many can match the level of detail and ease of use that the Pocket Casts app can offer all its users.

### Instapaper

Price £1.93/\$2.99 Developer Mobelux



There are plenty of occasions when you want to sit back and read through a host of articles but simply don't have the time to both find and read them. Instapaper allows you to save any article you find and come back to it later when you have the time. As the name suggests it allows you to create a curated, digital newspaper for yourself. Instapaper also converts your saves into simple white screens to reduce the visual noise that you can get on some sites.

### Reddit Sync Pro

Price £1.25/\$1.99 Developer Sync Apps



This unofficial app for Reddit, the news aggregator website, provides an impressive ICS Holo interface in which to read posts. Some of the social aspects that make Reddit so popular have been lost: there's no way to Friend people and you can't view your own comments easily. However, as a standalone reader, Reddit Sync Pro is very impressive, with day and night-time themes that adjust for lighting, and the option to sync image posts for offline use.

### Android Magazine

Price £2.99/\$4.99 Developer Imagine Publishing



Devoted entirely to the Android market, Android magazine is perfect for both beginners and more experienced Android users. From setting up and getting started to getting more out of your device with essential tips and tricks, this app is a must-have.

### Appy Geek

Price Free Developer Mobiles Republic



Appy Geek is the ultimate news source for those looking for the latest headlines in the world of technology. Each story is cleverly laid out to make reading it as easy as possible, images are nicely rendered and each story can be downloaded to read whenever you want to, at your convenience.

# News & Magazines

Arguably, the combination of news text and the mobile platform is a match made in heaven. In fact, the concept of the 24-hour news world has largely been forged around the mobile phone. The smartphone has turned news access on mobile platforms into an accepted and increasingly specialist medium which has encouraged mobile magazines to take firm root in many genres. It is little wonder then that you will see newsstand publications offering free content

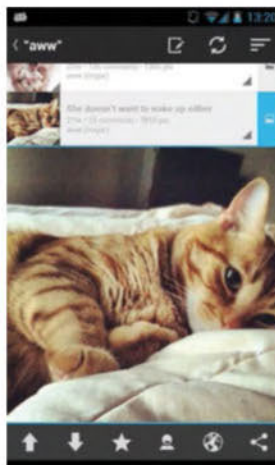
as an app to partly encourage you to also buy the paper version, or perhaps to try to tempt you with further data coverage upon the payment of a fee. Because this is a data medium, news on a mobile platform can be manipulated in a variety of different ways, which means feeding you information via RSS or aggregating it to combine a variety of sources. Ultimately, news and magazine apps allow you to modify and tailor reports to how you want to receive them.



Save articles to read later with Instapaper



Get all the technology articles you could dream of in Appy Geek



View favourite news sites in one reader with Reddit



# Personalisation



“Customise your Samsung device as you see fit”



■ Add cool effects to your home screen with Nova Launcher Prime



■ Add extra functions to your lock screen with WidgetLocker

One of Android's overall strengths is its personalisation features, enabling users to tweak notification settings, add widgets and more without any restrictions. It's what sets Android devices apart from the more locked-down operating systems such as iOS, Windows Phone and RIM.

Browse the Google Play Store and you'll discover apps that apply statistic widgets on your home screen, add notification bubbles that can be interacted with and display amazing graphics in the background of your home screen, as well as programs that can give you access to literally millions of ringtones and wallpapers for you to use.

All of these features can be downloaded as apps – most for free – and you don't need to hack or root your device to use them. You're largely free to customise your Samsung device as you see fit. To help you get started we've rounded up our five favourite personalisation apps. Discover how you can customise your device with amazing graphics, audio and communication notifications.

■ All of the widgets on HD Widgets are very colourful and highly customisable



■ Go Launcher Ex offers a diverse range of themes

## 5 essential apps

### Nova Launcher Prime

Price £2.60/\$3.29 Developer TeslaCoil



In terms of customisation, you won't find a more detailed alternate launcher than Nova Launcher Prime. You can tinker with every aspect of your phone's display, and design it exactly how you want it to look like without it being too complicated of an app to understand. To expand the app further, the development team behind the app have released a choice of downloadable themes that you can use alongside the main launcher to help personalise your device.

### WidgetLocker Lockscreen

Price £1.99/\$2.99 Developer TeslaCoil Software



Open up the lock screen to having widgets and shortcuts of your choice with this app, and give yourself the ability to make any slider a shortcut to any app or process. Slider Actions can be customised, for example Slide-to-launch-Camera or Slide-to-call-your-Girlfriend. The slider menu is full of different themes, ranging from the stock Android slider to iOS's MIUI to MotoBlur.

### Everything Home (Beta)

Price Free Developer Everything.me



Could perhaps be regarded as the ultimate personalisation app. Everything Home places a search bar at the top of your device and takes what you search for and completely moulds your phone to that search term, complete with background image and even suggested apps. The app completely changes the way you can use your phone, not just adding a touch of personalisation, but also improved productivity with your device in hand.

### Go Launcher EX

Price Free Developer Go Launcher Dev Team



Offering a wide range of themes, icons and resizable widgets, Go Launcher EX also boasts some innovative utility functions. Among these are an efficient and strong app manager – with sorting, hiding app, searching, cleaning memory and refresh – and custom gestures that offer you more convenience and fun.

### HD Widgets

Price £1.49/\$1.99 Developer cloud.tv



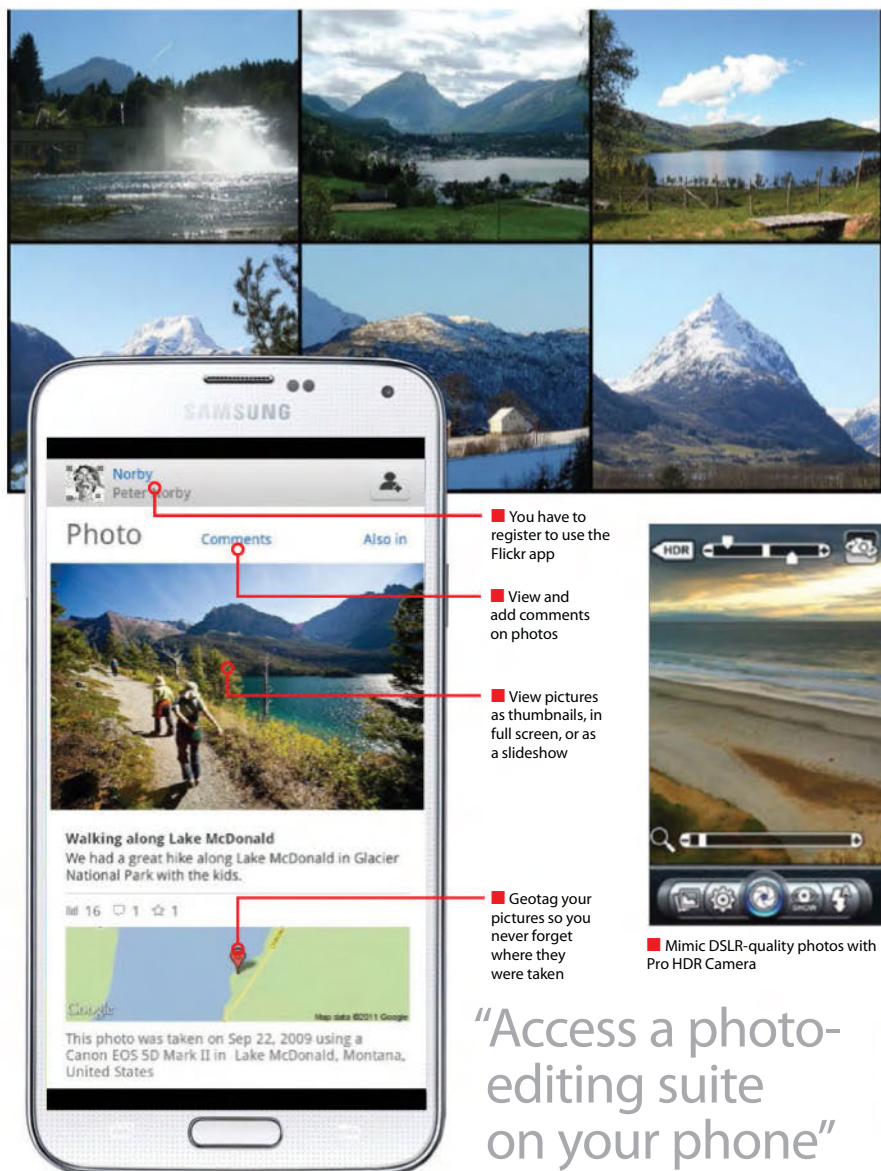
A rival to the throne of Beautiful Widgets, HD Widgets offers gorgeous widgets that are easy to install. Including a mixture of customisable clocks and weather forecast widgets, the graphics are all in stunning high definition and also optimised for tablets, so once you download it, you can use it on all of your devices.



# Photography

The cameras on smartphones today have evolved into sophisticated kits and it looks like we've reached an era where a digital camera or DSLR is quickly being struck off the list of 'must-have' items in your home. The norm today is 13MP and the success of Instagram has seen a recent trend for vintage-style filters that give your photos a dated, pre-digital look with distorted colours and lens flare. These retro images are a lot of fun and the adding of captions and

borders lend themselves well to the social sharing aspect that is built up around these types of photos. With apps like Photoshop Express, you can now access a photo-editing suite on your phone and crop, rotate and adjust the colour of your images to create something truly spectacular. Other apps are also opening up new avenues for so-called 'phone-tography,' with panoramic landscapes and time-lapse videos becoming increasingly popular.

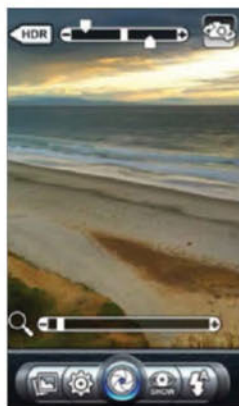


■ You have to register to use the Flickr app

■ View and add comments on photos

■ View pictures as thumbnails, in full screen, or as a slideshow

■ Geotag your pictures so you never forget where they were taken



■ Mimic DSLR-quality photos with Pro HDR Camera

"Access a photo-editing suite on your phone"

## 5 essential apps

### Paper Camera

Price £1.19/\$1.99 Developer JFDP Labs



Add real time cartoon and painting effects to your photos with the Paper Camera. Use the different filters to create fun photos and then be amazed when the app applies a bunch of colourful additions to them. The choice is amazing and you'll be able to find new combinations of filters and effects to keep your images looking different and fun every time you start using the app. All your photos created through the app can then be directly sent to your Facebook account.

### Camera Zoom FX

Price £1.79/\$2.99 Developer androidslide



Seen by many as one, if not the best camera app on Android. Camera Zoom FX allows you to take up to 10 shots a second, some serious speed in terms of a smartphone camera app. It also supports an impressive level of zoom as well as the ability to adjust the button layout as you see fit. Camera Zoom FX is refreshing simply to use and has the features to go with it to make it a very useful app to always have close at hand.

### Flickr

Price Free Developer Yahoo



Share your photos across social networks with Flickr. Take photos in-app, enhance them with filters, then share across Facebook and Twitter. You also get access to Flickr's community of budding photographers and the ability to view their work and your own in full-screen browsing and slideshows. Here you can also share the stories behind your pictures. To help keep track of your photos, the app also uses geotagging so you don't forget where they were taken.

### Pro HDR Camera

Price £1.25/\$1.99 Developer EyeApps



Mimic DSLR-quality photography with this app. It takes two exposures and then combines them together; you can then make adjustments to the image. The results are extremely high quality and the sliders to adjust brightness, contrast, saturation are very responsive.

### Instagram

Price Free Developer Instagram



Instagram is a great way to connect with other people through our love of images. Not only does it allow you to upload your own pics and share them with other people, you can also follow your favourite celebs to see what they've been up to. You can also use the app to edit your images and apply all kinds of fancy filters.



## 5 essential apps

### Shopper

Price Free Developer Google



Google Shopper provides a search engine to find products and compare prices online and in your area. The Shopper app recognises products by cover art, barcodes, voice and text. You can also select items by category from the main menu. All products come with descriptions, user reviews and videos, where available. When Shopper can't recognise a barcode, it offers to search in the Google browser. This app also lists online retailers before local ones – perfect if you're looking for the best price, but not ideal if you're trying to support your local high street.

### FastMall

Price Free Developer Mindsmack



Navigate your way round the biggest and best malls in the UK, USA, Canada and France with FastMall. With detailed layouts of major shopping centres, this app makes it easy to get in, make your purchase, and get out again. The ability to download maps offers the bonus of not needing Wi-Fi. Other handy features include the ability to record where you parked your car. If you need the toilet urgently, shake your phone frantically to find the nearest restroom.

### eBay

Price Free Developer eBay Mobile



The official app for the shopping service that we have all become familiar with needs little introduction. This app allows you to fully manage your buying and selling activity no matter where you might find yourself, something very useful. Just ask any eBay addict. You can carry out transactions in-app, and thanks to an interface re-design in the not too distant past, it's extremely easy to use.

### Fancy

Price Free Developer thingd



Similar to Pinterest, Fancy is all about finding and sharing cool things online, with the significant difference that on Fancy you can actually buy them. This is secondary however to the endless social aspect, with the app focused on rating photos of stylish products and commenting on them.

### Vouchercloud

Price Free Developer Invitation Digital



Free to download and use, Vouchercloud has the biggest selection of mobile discount vouchers – with a mix of big brand names and local shops. Deals include retail, fine dining, cinema tickets and much more, but you can filter between types of categories using colour-coded headings at the top of the screen.

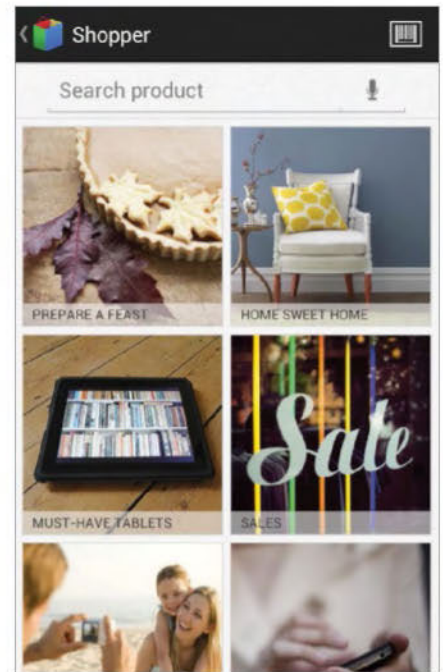
# Shopping

First we fell in love with shopping online, now it's all about doing it on the move. Shopping apps allow you to search for products you want, wherever you are.

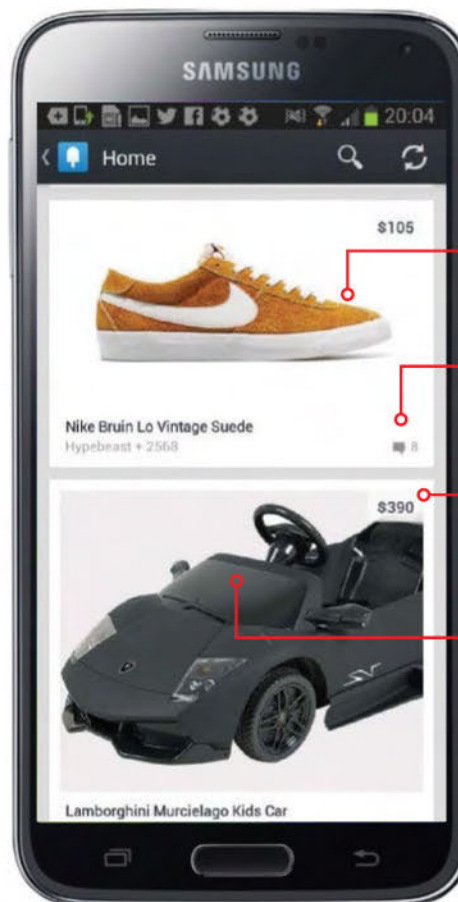
Some complain that shopping apps are driving purchasers away from local shops and sending them to online vendors, pointing to the eBay and Android mobile apps as examples. While this is certainly true to some extent, this is only in the interest of finding the best deal for the consumer.

There are also many apps designed explicitly to accommodate and promote local businesses. For example, voucher apps such as Groupon, LivingSocial and Vouchercloud exist to tempt shoppers into visiting nearby businesses with special offers.

In short, shopping with Android apps is efficient, direct and enables you to find the best price for what you want.



■ Scan barcodes to find the best price with Shopper



■ Navigate shops with FastMall

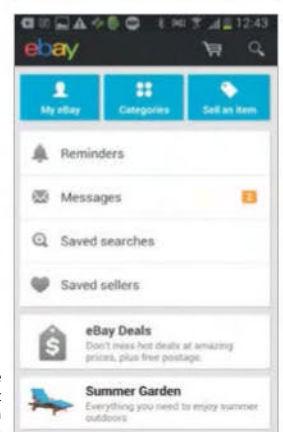
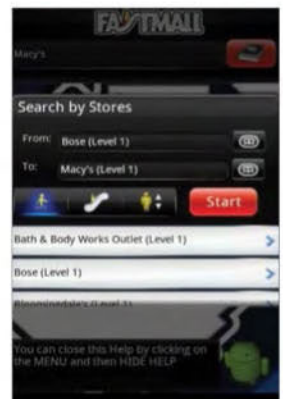
■ View photos of products at various angles with Fancy

■ Reader ratings are included for each product

■ Be warned, products are often well above high-street prices

■ If you see something you like on Fancy, click here and it will direct you to a website where you can buy it

■ Manage your account on the go with the eBay app





# Social

Perhaps the greatest aspects of owning a smartphone is the sheer number of opportunities to stay in touch with friends, family and the wider world. Thanks to the amazing number of social networking apps available for Android devices, there's a wealth of content out there waiting to be discovered. Some of the very best apps enable you to chat with friends in real-time, share and view photos, send free messages, read tweets from

friends and the famous alike, 'check-in' at locations to share your current whereabouts, plus plenty more. Incredibly, all of these apps are free to download and use.

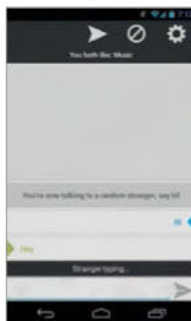
Read on to discover five essential social networking apps that enable you to stay in touch and tell the world what you're thinking. You'll wonder how everyone managed to communicate with only landline telephones just two decades ago.



■ Get your Facebook news on your home screen with Facebook Home



■ Communicate for free with WhatsApp



■ Chat with people in the Omegle app



■ Send text and picture messages with an expiry date in Snapchat

## 5 essential apps

### Snapchat

Price Free Developer Snapchat, Inc



Snapchat is the new wave of texting that's recently become very popular owing to its constant usage by teenagers. Users can send a creatively-enhanced picture or text message to a friend or group of friends and set a time-limit as to how long they can view it for (up to 10 seconds). After that the message is deleted - both at the receiver's end and from the Snapchat servers. If a screenshot was taken, the sender will be notified. Cool, innovative and fun, Snapchat has taken messaging to a whole new level.

### Facebook Home

Price Free Developer Facebook



If you're a user who keeps checking their Facebook profile a minimum of ten times in a day, then Facebook Home is for you. It's basically a launcher that puts all your Facebook friend's posts and photos on your home screen for you to get instant updates of what's going in your social network. Download Facebook Messenger to discover Chat Heads, where you can chat with friends from other apps. At present, Home is only available on select Samsung devices.

### Keek Social Video

Price Free Developer Keek Inc



Capture and share short videos with a big community of fellow video bloggers on Keek. The app includes all the social functions you'd expect and it's remarkably easy to meet new people. You'll also find an integrated video recorder that lets you post all your videos directly to the site for everyone else to see. There are plenty of additional features to discover the more videos you upload and after a few goes at using it, you'll find it to be on par with YouTube.

### Omegle

Price Free Developer NDCubed



If you want a simple way to meet people without any awkward face to face meetings, then the Omegle app is for you. The app enables users to connect with people who share the same interests as them all behind an anonymous username. You can then move on to someone else through the 'next' button.

### WhatsApp Messenger

Price Free Developer WhatsApp Inc



This app is hugely popular the world over, and for very good reason - it allows you to make free calls and send unlimited free text messages. You can also send and receive photos, videos and voice messages and engage in group chats - all through your device's internet connection. Can you afford not to use it?

"Tell the world what you're thinking"





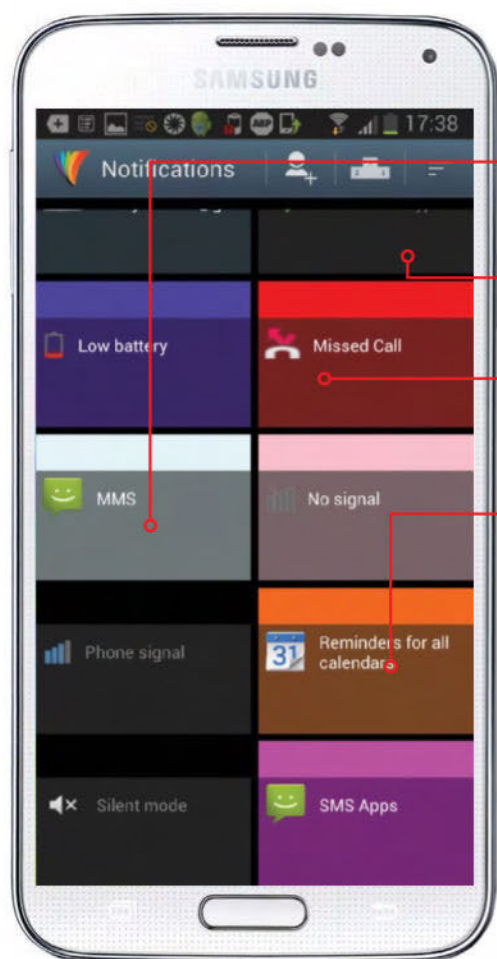
# Tools

Smartphones are essentially digital Swiss Army knives, except instead of a spork and a corkscrew, it comes with a QR scanner or a language translator. With a few simple taps in the Google Play Store, you can add or remove as many tools as you like and customise your device for different tasks.

The apps in the Tools category have two subtle distinctions. Firstly, there are those designed to improve your life. When you're lost in the dark, there is a flashlight. Need to measure the length of a doorway, or even the height of a house? Your camera plus an

app packed with clever equations can do the maths for you. Want to change the TV channel but can't find the remote? There is a universal remote app that will do it from your smartphone.

Then there are those apps that are designed to improve your smartphone. They boost your battery life, provide added security protections, or just allow you to run Flash animations in your web browser. These kind of apps may seem less important but if your device is supercharged, so are you.



■ Keep track of all your web apps in one place with Adobe Air

■ Choose from a variety of colours

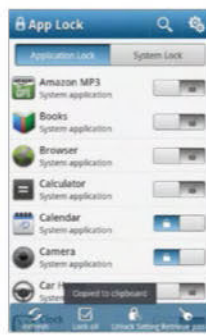
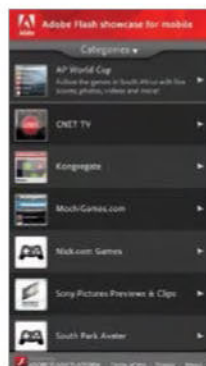
■ Add custom animations to different areas of your phone

■ Notice the LED change colour throughout

■ Use the home menu to track all your changes

■ Lock up any of your apps away from prying eyes with APP Lock

■ Translate from almost any language quickly with Google Translate



## 5 essential apps

### Adobe Air

Price Free Developer Adobe



Adobe AIR is the ultimate hub for any web apps you often use on your device. It monitors your history of any web apps you've interacted with, providing you with quick access to them whenever you need them. At any point you can perform a remote wipe on anything stored to help quicken up the app a little, if necessary. If you've other Adobe apps installed on your device, you can use Adobe Air to sync them all together.

### Tiny Flashlight & LED

Price Free Developer Nikolay Ananiev



Next time you're caught in a blackout, turn your device into a torch with this app. The camera flash can be switched on for an extended time from the home screen, but under the menu screen you can also turn your screen into a bright white light. Other in-app features mostly exist for novelty value, such as a strobe light, orange warning lights and red and blue police lights. One standout extra, though, also allows you to type in text and then flashes it as Morse code.

### APP Lock

Price Free Developer DoMobile Lab



Protect your installed apps using a password or pattern, perhaps to keep prying eyes out your photos or deny thieves the satisfaction of playing all your games. All your apps (including advanced ones such as answering incoming calls and the Google Play Store) are listed in-app and you can either set them all to locked or unlocked, or use sliders to individually customise your apps' encryption.

### Google Translate

Price Free Developer Google



A perilous situation for any of us is having to try and communicate with someone without a common language. Yes, we have tried your handy phrasebook but you're still struggling, this is where Google Translate comes in. Speak or type anything into the app and it can be translated into almost any language. Hear it said out loud or printed so your communication is clear.

### LightFlow LED

Price £1.49/\$2.49 Developer Rage Consulting



One of the coolest ways of personalising your device is to use LightFlow, an ingenious app that lets you tinker and implement a wide variety of designs throughout your phone. As well as adding colours to your notifications, you can also alter the sounds and vibration settings to really personalise your device.

"Customise your device for different tasks"



## 5 essential apps

### SpeedView Pro

Price £1.80/\$2.95 Developer Code Sector



SpeedView Pro is an advanced speedometer that connects to your phone's GPS system to show you your current speed and other essential driving data. The interactive HUD can be customised to show other data that can then be sent to your desktop computer for you to take a look at, and you can then attach your phone to a windshield mount to see live stats as you start driving. There's a free version available from the Google Play Store but it doesn't include half the amount of features that the Pro version does.

### thetrainline times and tickets

Price Free Developer thetrainline



If you are a rail user then this app makes it easy to plan your journey, check live train times and platform information and even buy tickets for any UK train route. The simple and accessible interface makes it easy to map out your journey, including all of the various stops and changes along the way, see which platform you need to get to for your connecting trains and purchase your tickets cheaper in advance.

### WhatGas Petrol Prices

Price Free Developer whatgas.com



WhatGas flags up petrol stations in your area on a map. Tapping on a flag will reveal the petrol station's unleaded and diesel prices as submitted by other local users, and tapping on the top bar will reveal the best overall price in the area. When you go to fill up, if you spot their prices have changed, you can submit new prices yourself and update the app. Similarly, if you also spot there is a petrol station near you that has been missed, you can add it to the map yourself.

### Tube Map

Price Free Developer mXData



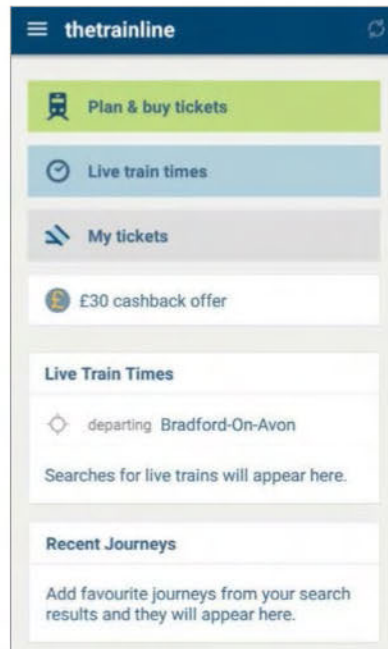
Whether you're a regular London commuter or just a day visitor, the usefulness of having this app close on hand is unspeakable. Get live updates as well as plan your route and use maps offline.

### Car Locator

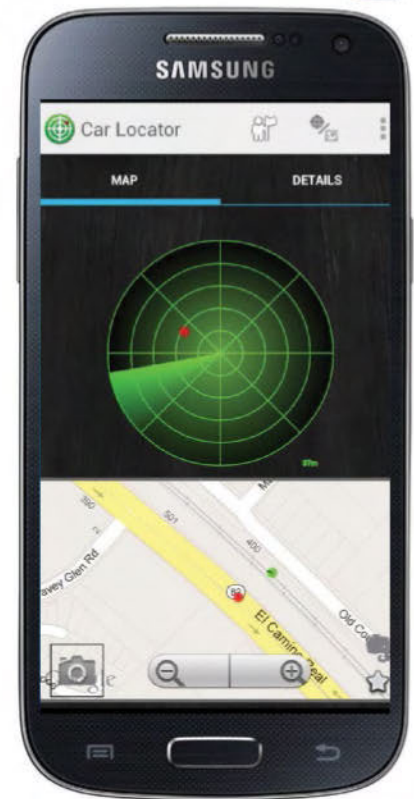
Price £2.99/\$3.99 Developer Edward Kim



Never forget where you parked the car again with this excellent app. Car Locator uses GPS to log your location. For convenience this tracker can be set up as a home-screen widget. To aid your search, you can attach photos and add notes to an entry, or email the location to a third party.



Plan your rail journey by rail



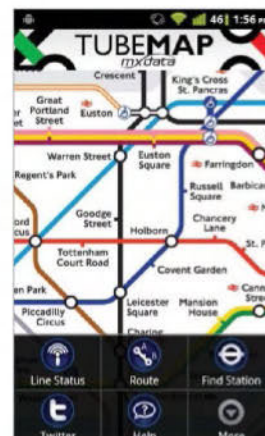
## Transport

What better method of accessing information relating to transport than via a mobile phone, and what better time to do it than while you are on the move? The two mediums are truly synergistic and both change their content regularly. Transport-related apps have the ability to access timetables, for example, in real-time. As such, they can pick up late changes in those timetables due to adverse weather conditions or problems on the route. Some apps enable you to plan your route and

will offer advice as you do so, while others give you a real-time movement monitor. By utilising your phone's GPS system, they can see where you are relative to the rest of the country or find out how close you are to the next station – endlessly useful if you find yourself in an unfamiliar location. Information like this also enables you to ring ahead to friends, family and business colleagues with up-to-date information regarding any unexpected delays.



Get the best price when filling your car using WhatGas Petrol Prices



Get live Tube updates straight to your phone



Track your speed and other car information in SpeedView

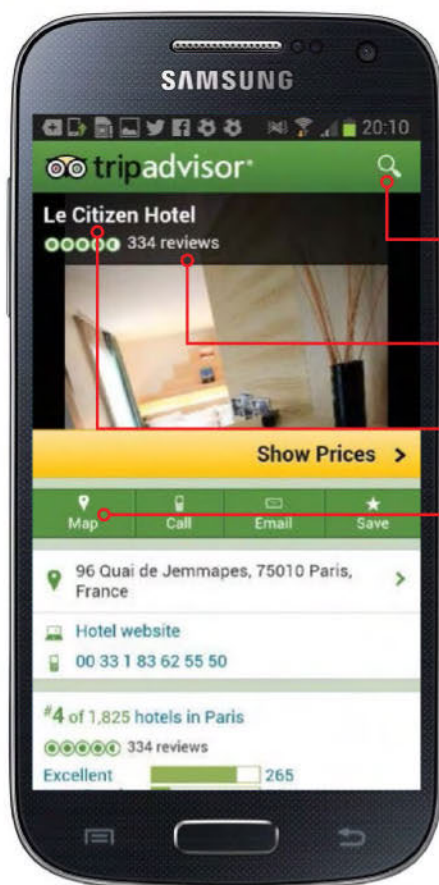


# Travel & Local

Perhaps the biggest advantage to owning an Android device is that it's impossible to get lost. At an instant you can pull up an entire map of the world, manipulate it with your fingers, see yourself pinpointed and get directions to any destination. Pulling up to the

side of the road to ask a stranger directions is now a thing of the past. As is carrying (and folding) a paper map.

Of course, there's a wealth of further benefits to owning a smartphone. Thanks to the plethora of apps in the Play Store, you can see live flight details for any commercial plane in the world, see your seat on a plane map, view departures and arrivals for any airport, navigate the world's streets in first-person and then see the entire surface of the planet in 3D. There's a mind-boggling array – all accessed through the device in your pocket.



■ TripAdvisor's search bar makes it easy to look up any location in the world

■ Browse millions of user-generated reviews and upload your own

■ Filter entries by hotels, restaurants and tourist attractions

■ Use Near Me Now to scan for local attractions and access maps

"You can pull up a map of the world and see yourself pinpointed"



■ Take a 3D look at air traffic in the skies above you and track individual flights

## 5 essential apps

### Booking.com

Price Free Developer Booking.com

**B** No matter where you're looking to travel to in the world, Booking.com contains over 265,000 hotels and hostels to help you find the perfect place to stay. You can filter your results to find the perfect place and the app also includes essential travel tips for many destinations. Every month the app looks to add new destinations and hotels that you can check out, so you're always spoilt for choice. Prices are fairly competitive, but make sure you shop around to see all of the available options first.

### Waze Social GPS Traffic & Gas

Price Free Developer Waze

**W** This community-based GPS app allows you to join forces with other drivers nearby to outsmart traffic while driving. Crowdsourcing information from its 30 million users, Waze gives you real-time traffic reports on everything from accidents and speed cameras to petrol prices and weather conditions. The social function also extends to Facebook and the option to have Map Chats with other users. The app also supports voice control to enable hands-free use.

### Plane Finder 3D

Price £1.99/\$2.99 Developer Pinkfoot Limited

**P** While there are plenty of apps that allow you to track the planes in the skies above us, few are as cool or striking as Plane Finder 3D. This app involves a 3D look at air traffic above us, and allows users to get details and track individual flights at will. The Fly Me feature allows users to focus on a certain flight and take in the surrounding air traffic and the ground terrain from the perspective of a selected plane.

### TripAdvisor Hotels Flights

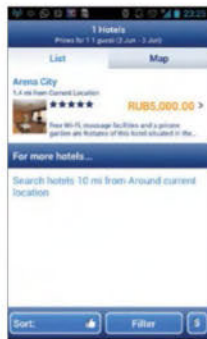
Price Free Developer TripAdvisor

**T** The renowned travel website, where users rate their experience at tourist attractions, is now in app form. A simplified version of the site, you can access all of its web listings and write reviews on the go. Better still, you can scan for hotels, restaurants and attractions in your area.

### CoPilot GPS

Price Free Developer ALK Technologies

**C** CoPilot has several apps on the Google Play Store, but their GPS app is the best of them all. This app works an offline route planner, enabling you to get directions from one place to another without being connected to a Wi-Fi network. All your routes can be saved for later use, if necessary.



■ Find the perfect hotel with Booking.com



■ Crowdsourc your traffic news with Waze Social GPS



# Weather

We've come to expect weather forecasts to maybe not be absolutely accurate, but at least to give us a general idea of what's in store for the next day or so. When we're looking forward to an outdoor event, we always check the forecasted conditions. Luckily there are plenty of apps that will let you check the weather at any time from anywhere. Many of us also have lines of work which benefit from regular weather updates. As such, it is crucial to know the weather forecast at the drop of a hat. The weather app built in to Galaxy phones

is a simple, no-fluff, no-nonsense weather app. It does its job well, but any weather app can give you the highs and lows for the day. Often you might want more information such as the humidity, wind speeds or sunrise and sunset times and other data.

**"Check the weather at any time from anywhere"**



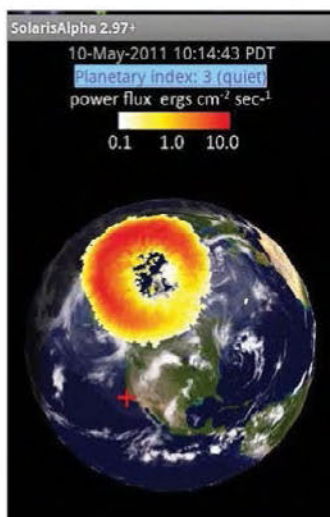
■ Get a 15-day forecast with Accuweather

■ Learn about the sun in Solaris Alpha

■ Explore the BBC's weather app – a new addition to the Store



■ WeatherPro is packed with information...



## 5 essential apps

### Accuweather

Price Free Developer Accuweather.com



Packaged in a sleek, clean user interface, Accuweather is packed with information. Daily forecasts are displayed on the main screen, with a graphic and temperature for your current location in the top half, which can be used as a slider for an hour-by-hour forecast; and details such as humidity, visibility, sunrise, sunset and wind direction listed in the lower half. The app also offers a broader 15-day prediction, radar images of cloud cover superimposed on Google Maps, and daily video forecasts from Accuweather.com.

### Met Office Weather Application

Price Free Developer Met Office



Save up to ten locations for local weather forecasts or view the UK weather map in its entirety with this official Met Office app. The slider at the bottom of the map allows you to skim through hour-by-hour breakdowns of the weather, while tapping icons on the right allows you to vary how the weather is displayed, such as using rainfall radar images or pressure symbols. It'll also alert you to severe weather warnings.

### BBC Weather

Price Free Developer BBC



A fairly new app on Google Play, BBC Weather is smart and simple, giving you all you need in a weather app. Using location it quickly gives you the current information where you are, as well as a five day forecast. If that's not enough you can swipe left to see an hour-by-hour breakdown of conditions and temperature. You can also search for any location around the world and access the same features.

### Solaris Alpha

Price £1.23/\$1.99 Developer Tomasso



There's a lot of depth in this app and there's no doubt you can learn something about the biggest star in our Solar System. You can find 3D ultraviolet sun maps that give you a tour of the sun, as well as realtime image of the sun's current location and other important solar information.

### WeatherPro

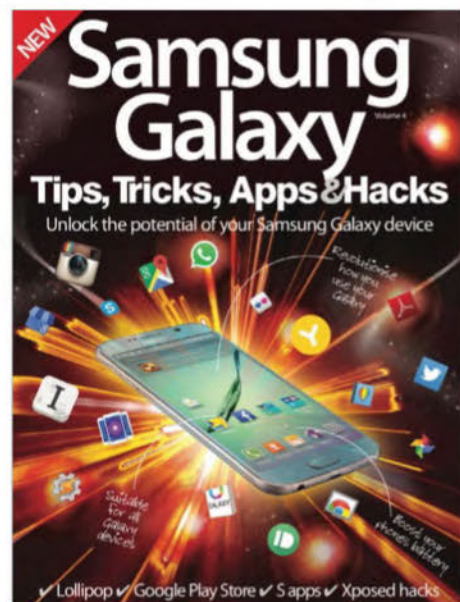
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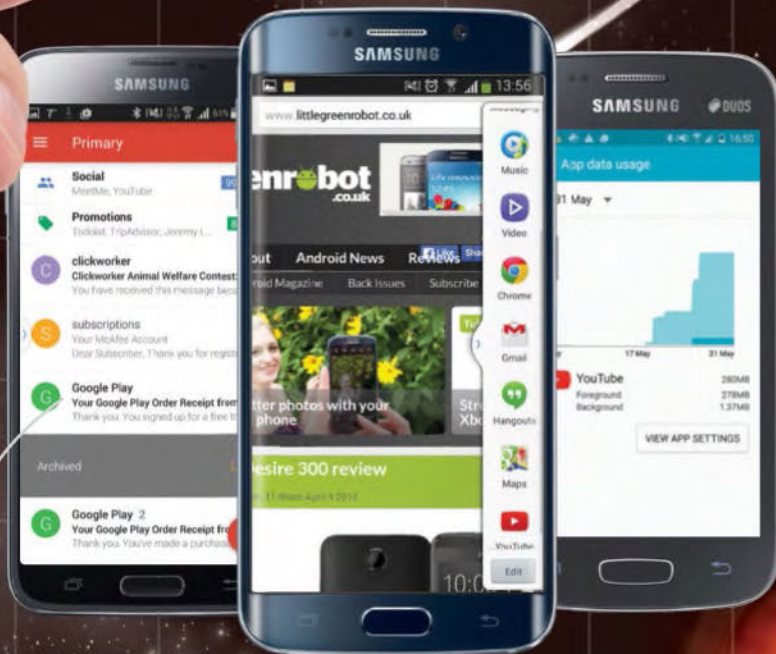
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